

Fig.1

TEAM 1	TEAM 2	EVENT
Player 1	Player A	2-point
Player 2	Player B	3-point
Player 3	Player C	Foul
Player 4	Player D	Free Throw
Player 5	Player E	_____
_____	_____	

Fig.2

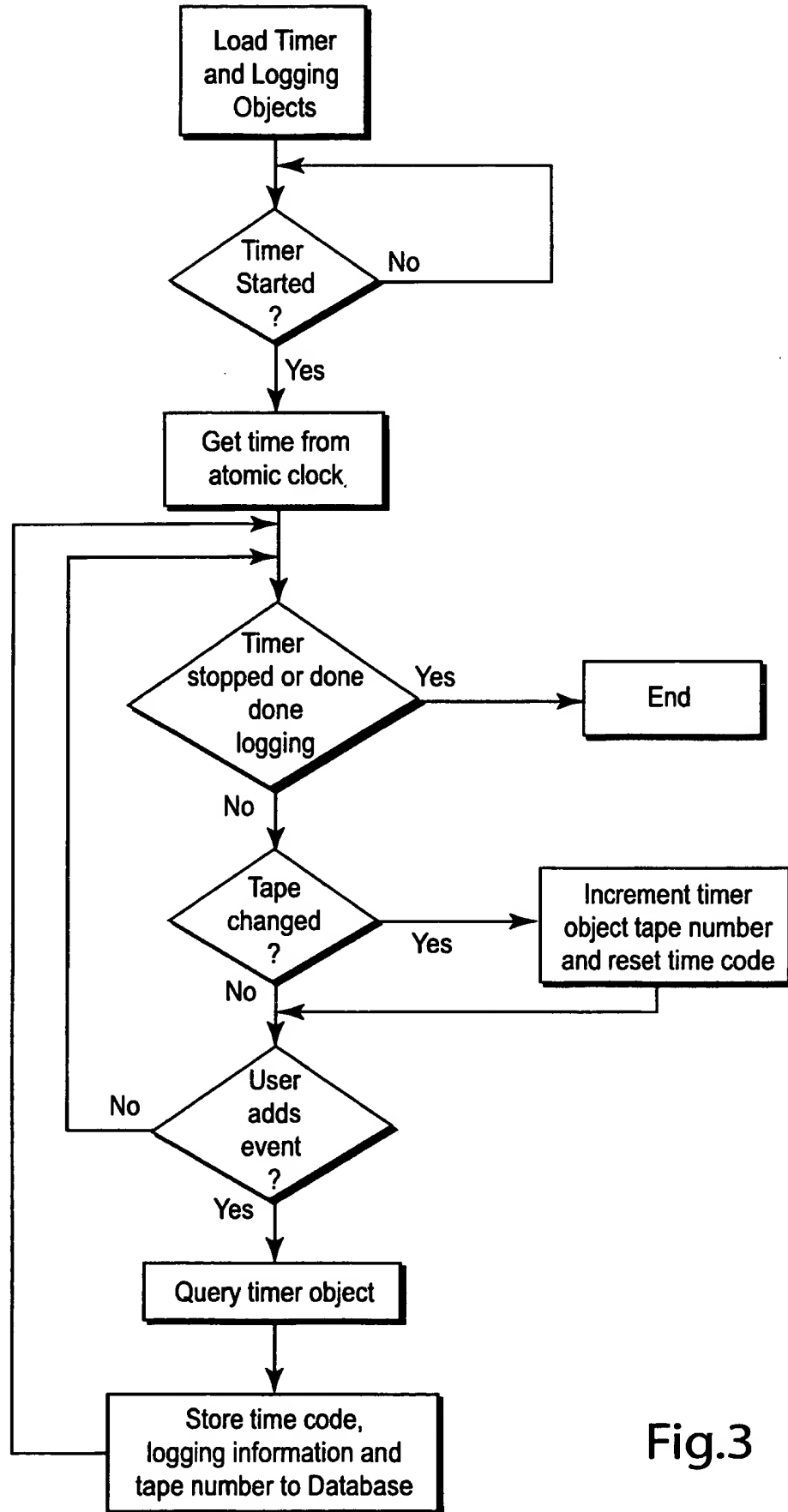


Fig.3

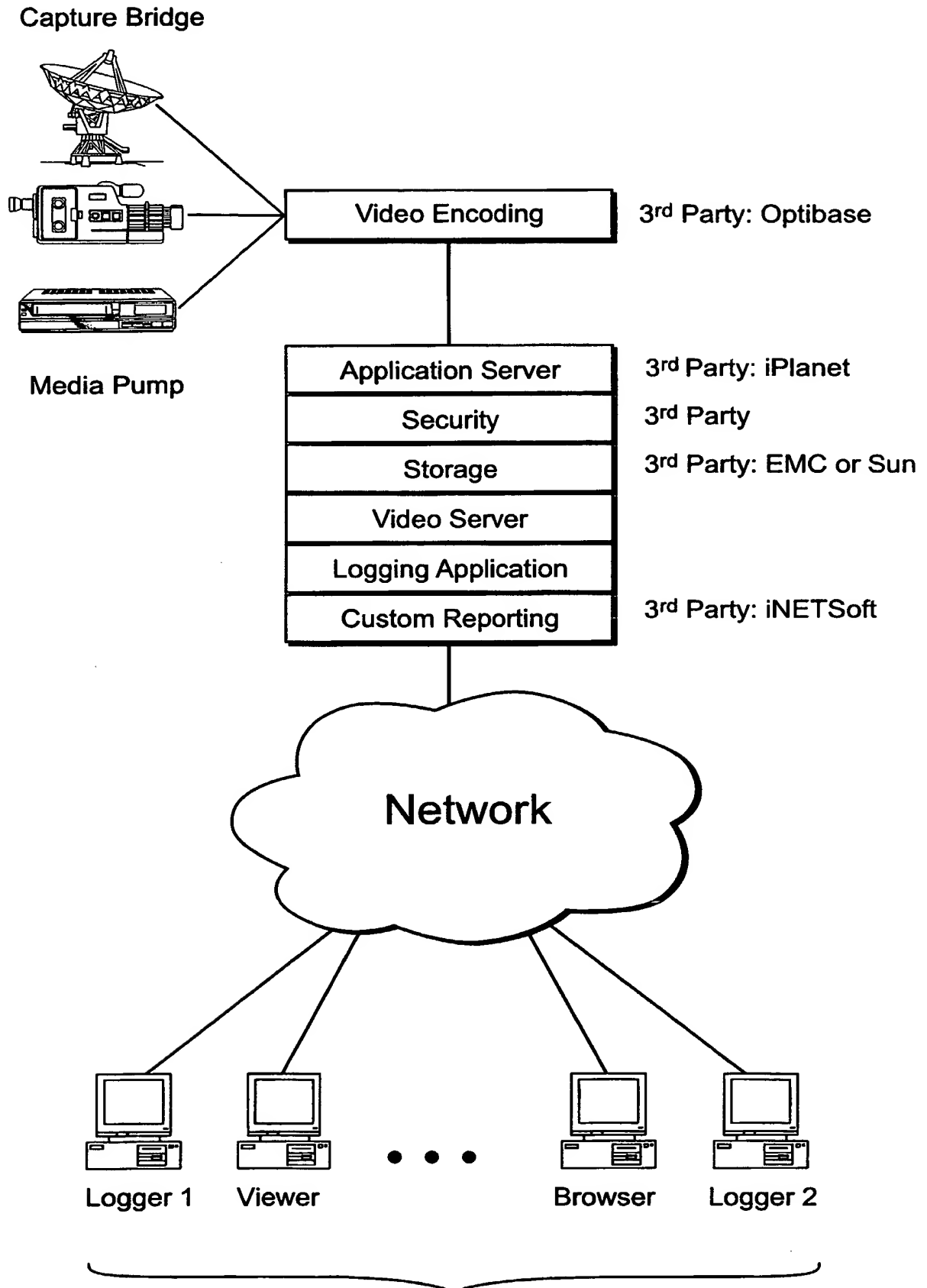


Fig.4

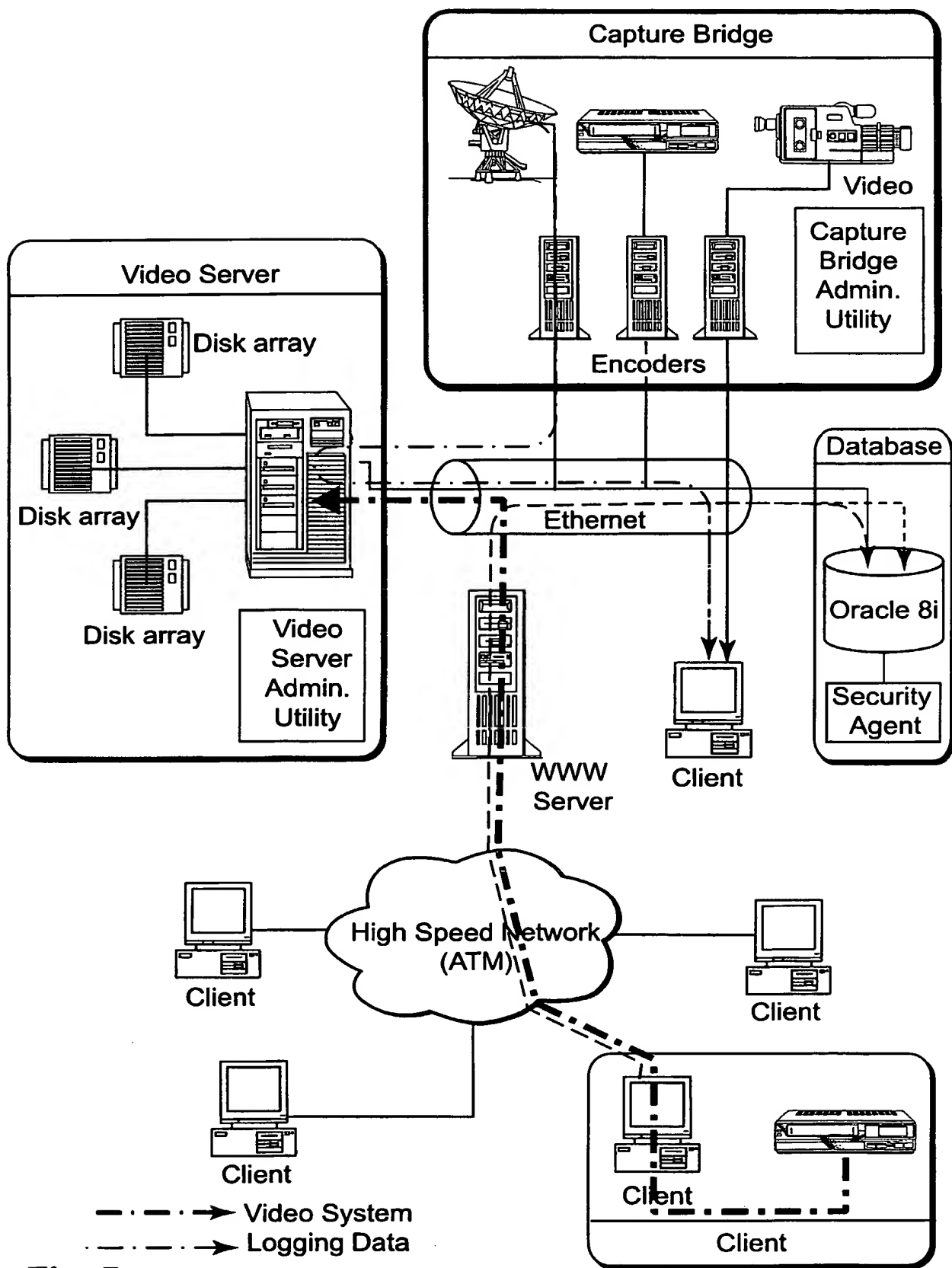


Fig.5

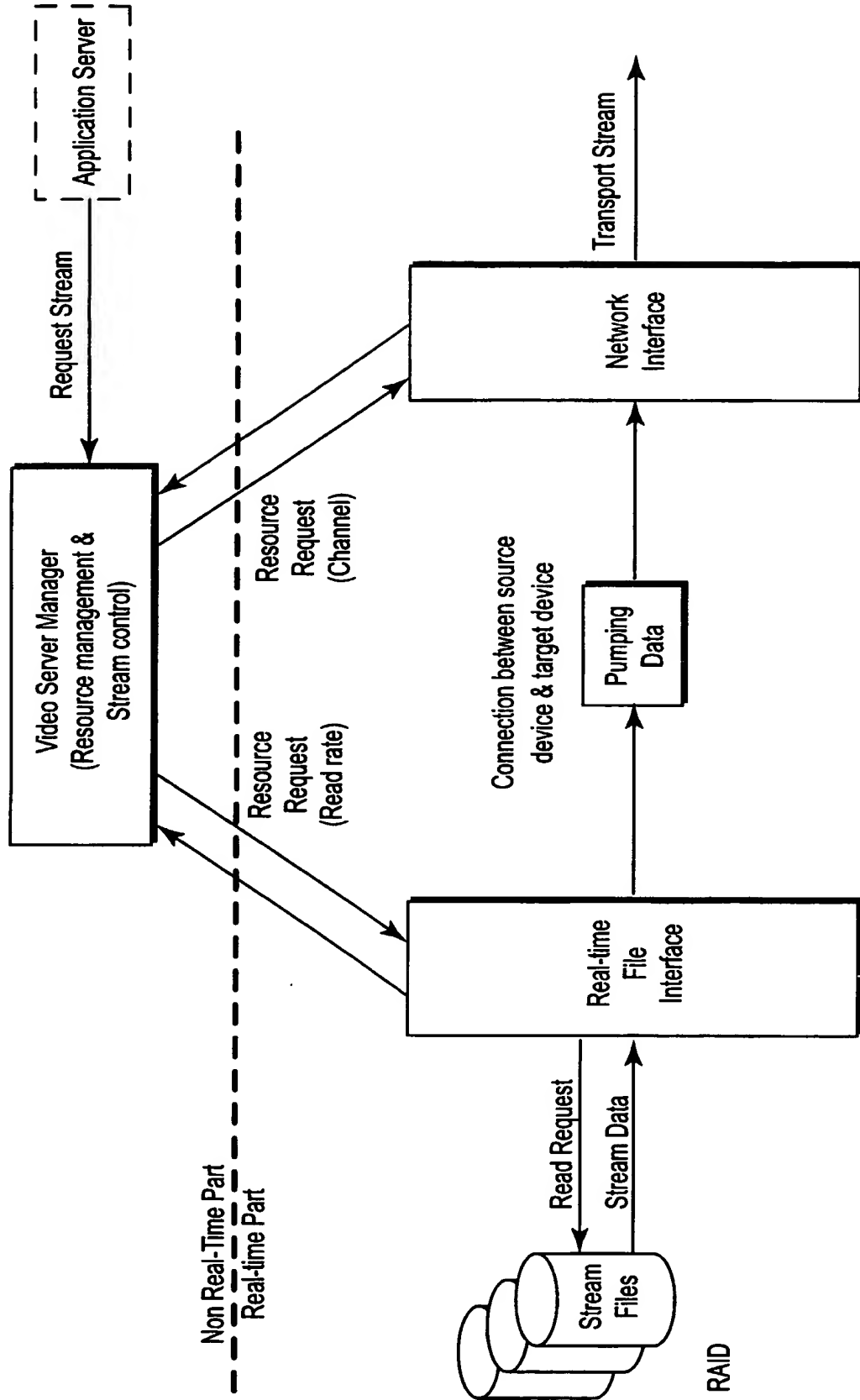


Fig.6 The video Server Architecture

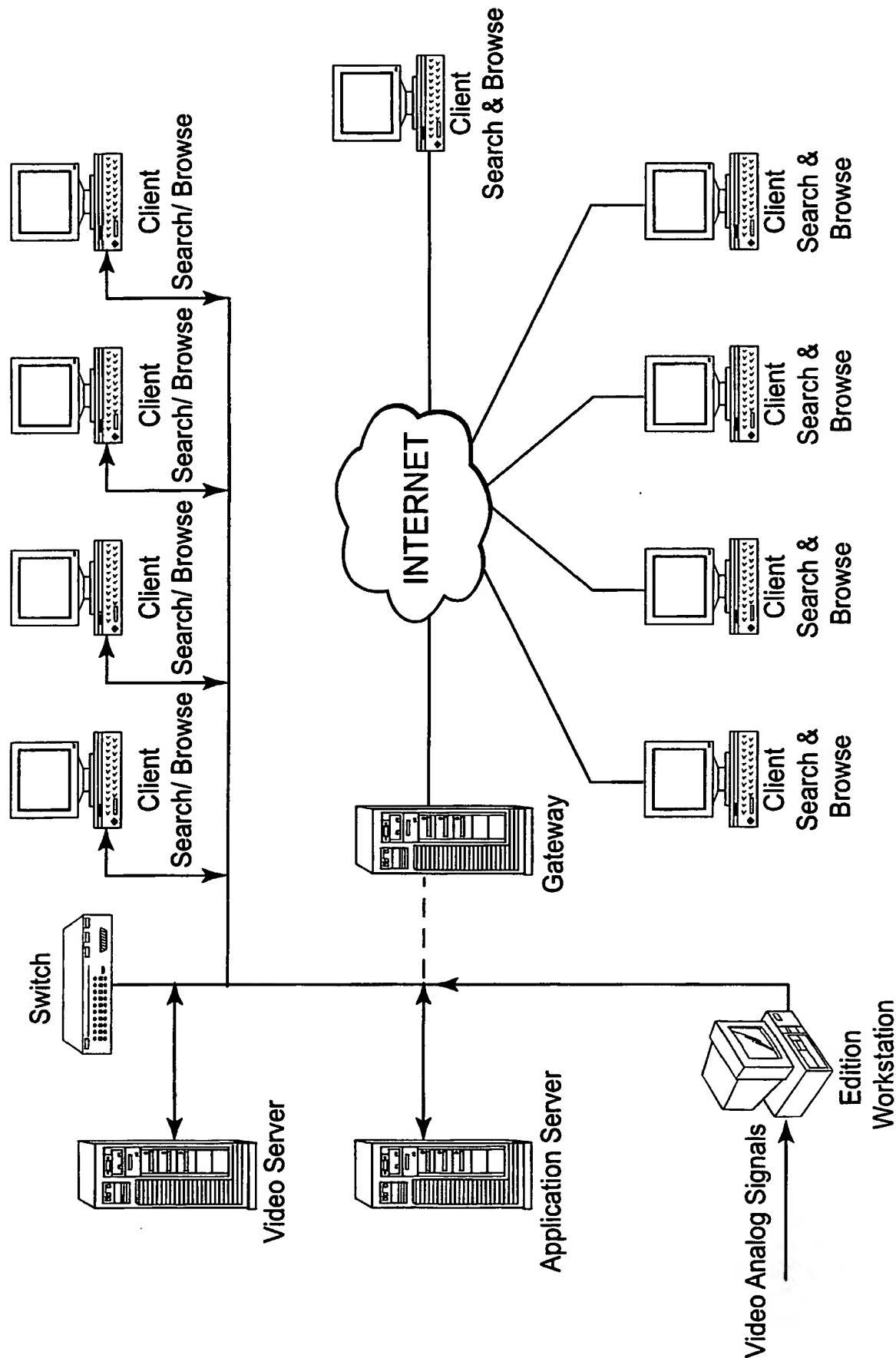


Fig.7a The video content management system architecture

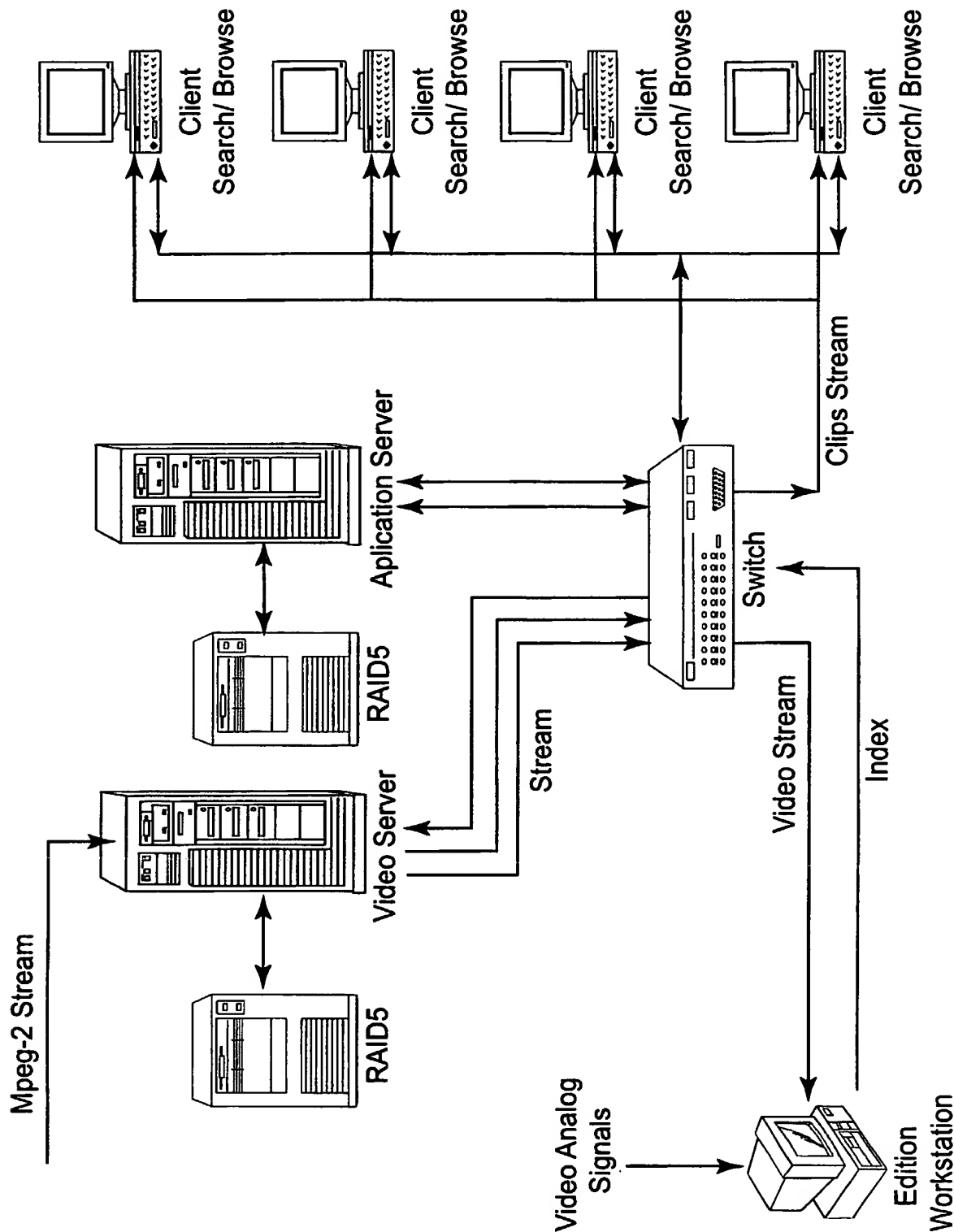


Fig.7b The signals diagram of Video Content Management System

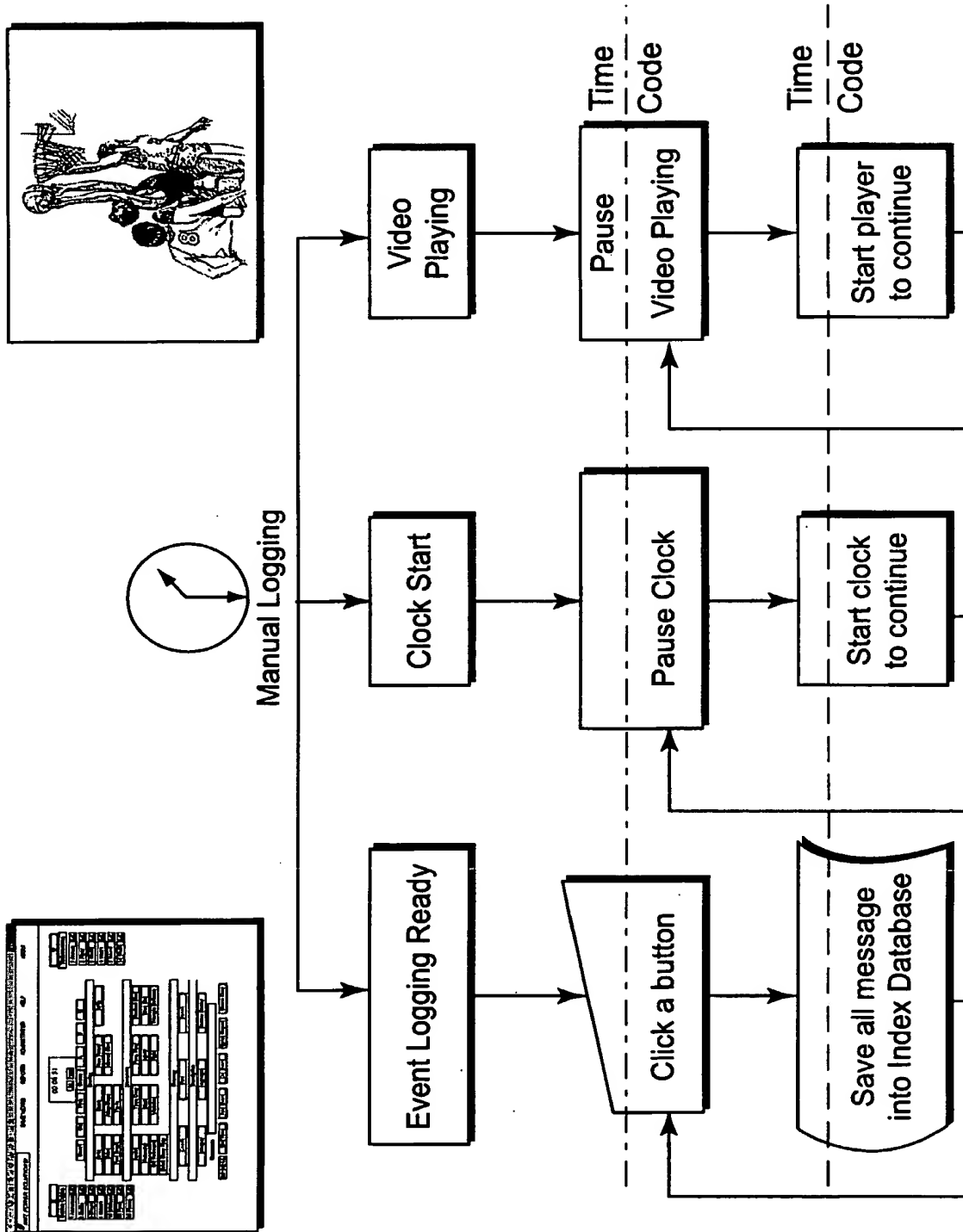


Fig.8a Manual Logger Flowchart

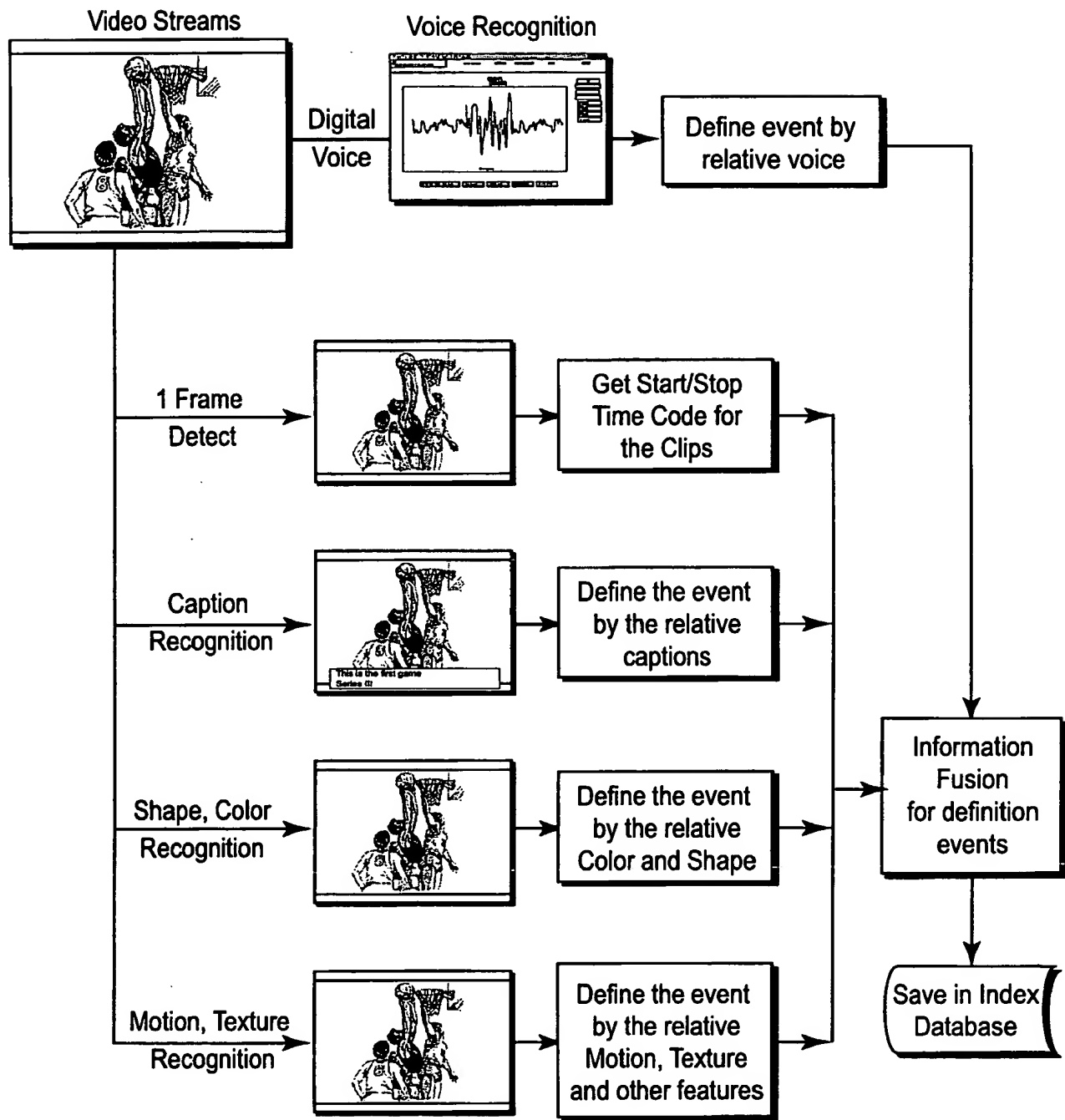


Fig.8b Automatic Logger Flowchart

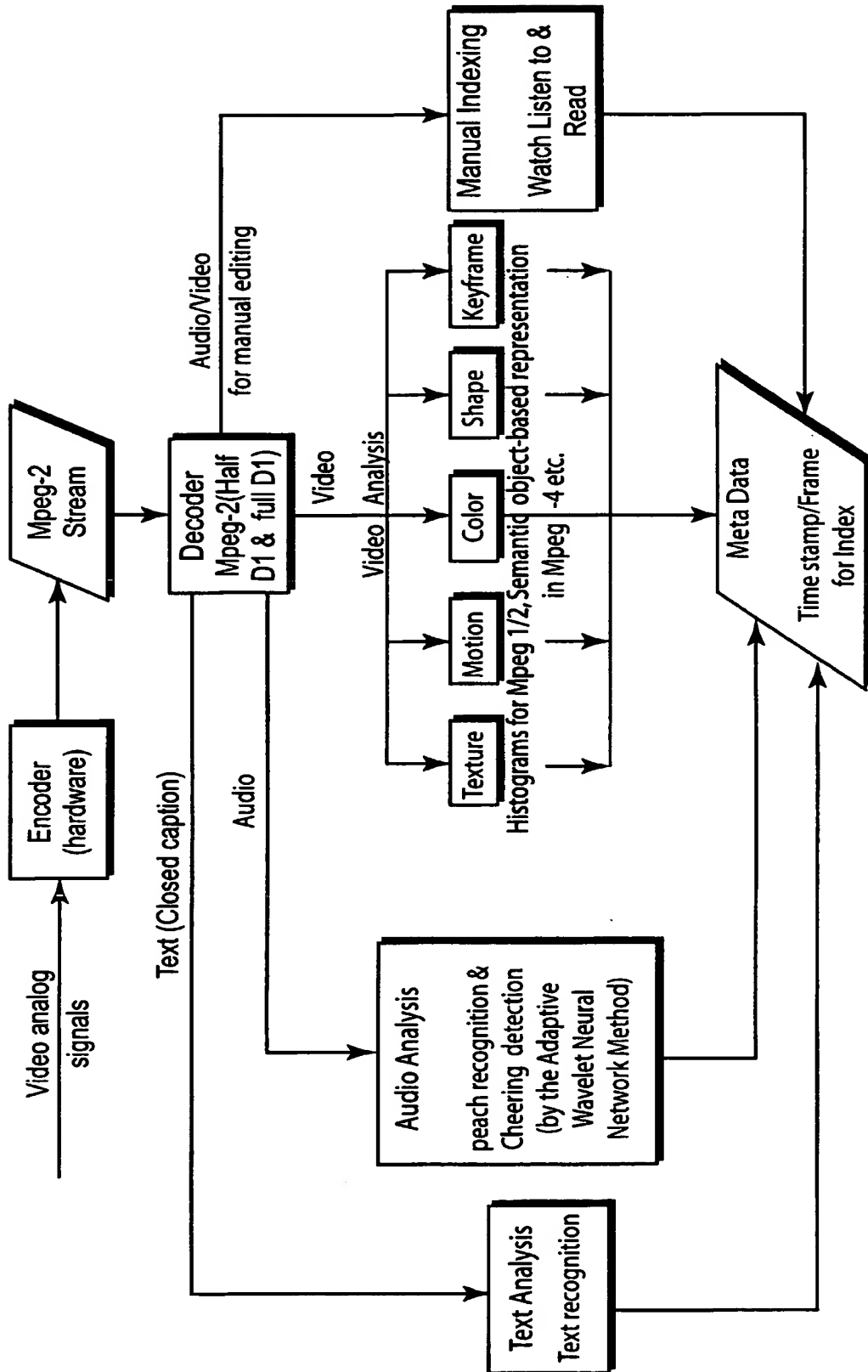
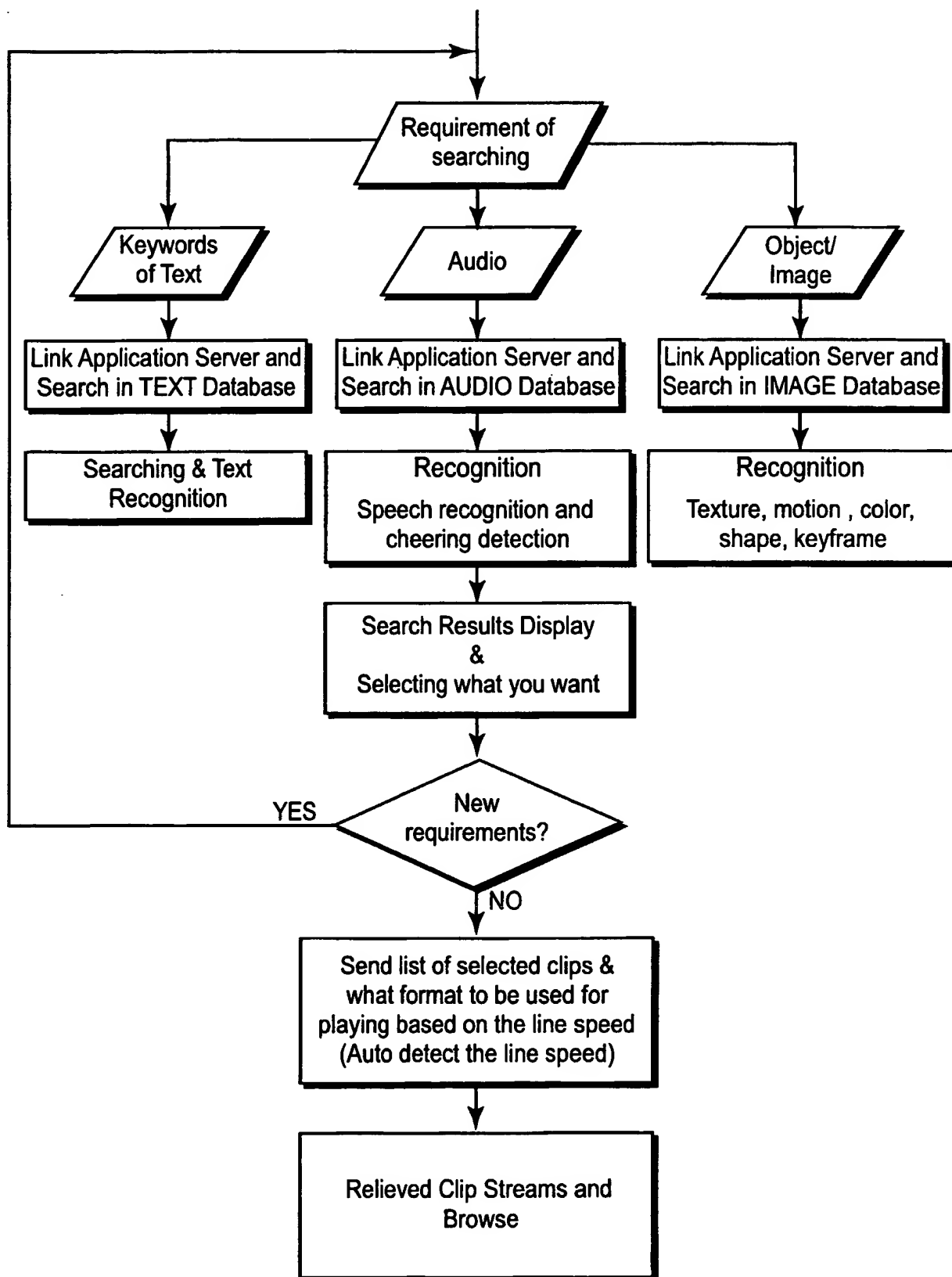


Fig.8C Video Indexing in the Edition Workstation (Manual Logger)

**Fig.8d** Search and Browse in the Clients

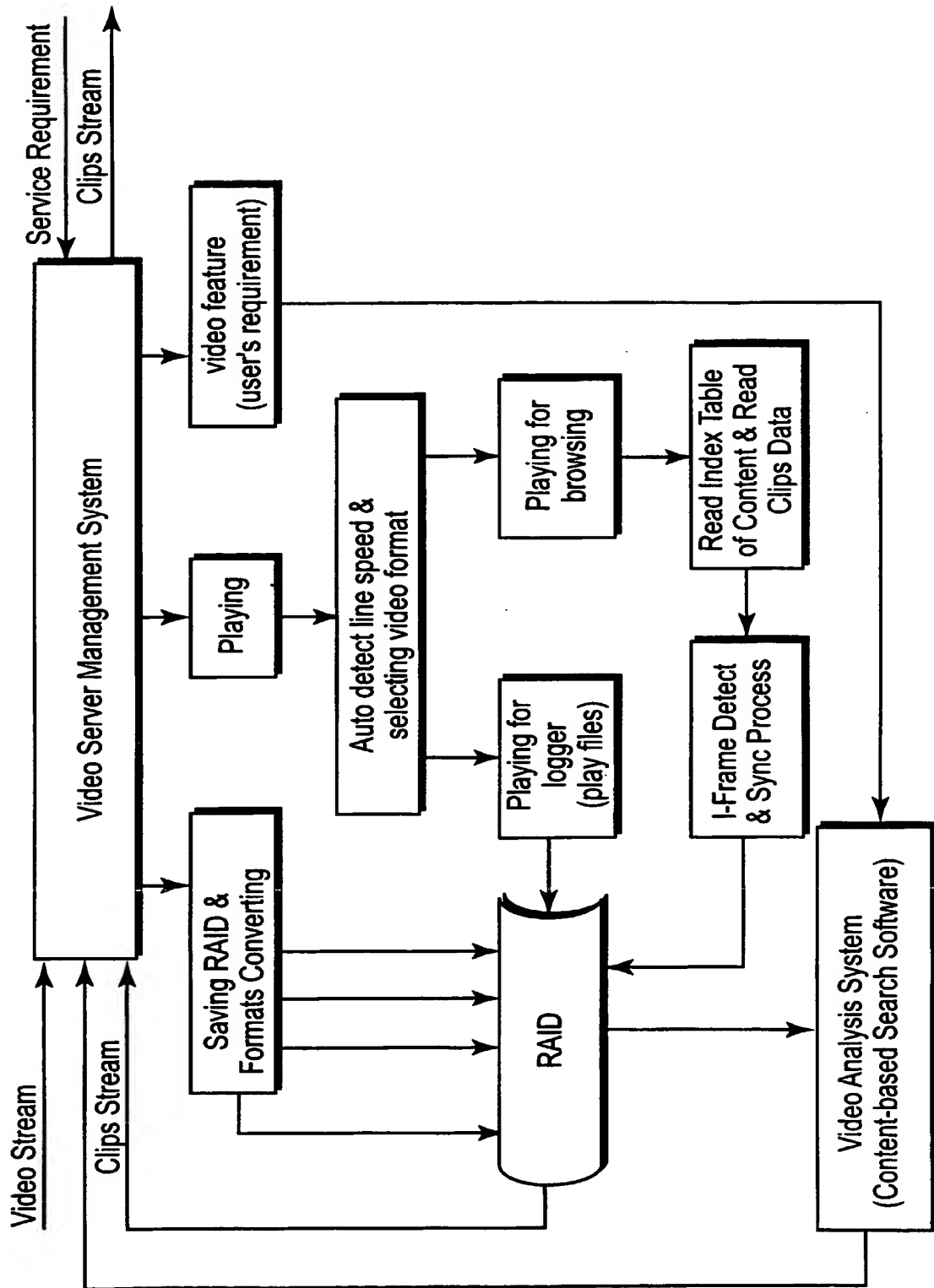


Fig.8e Video Server Flow Diagram

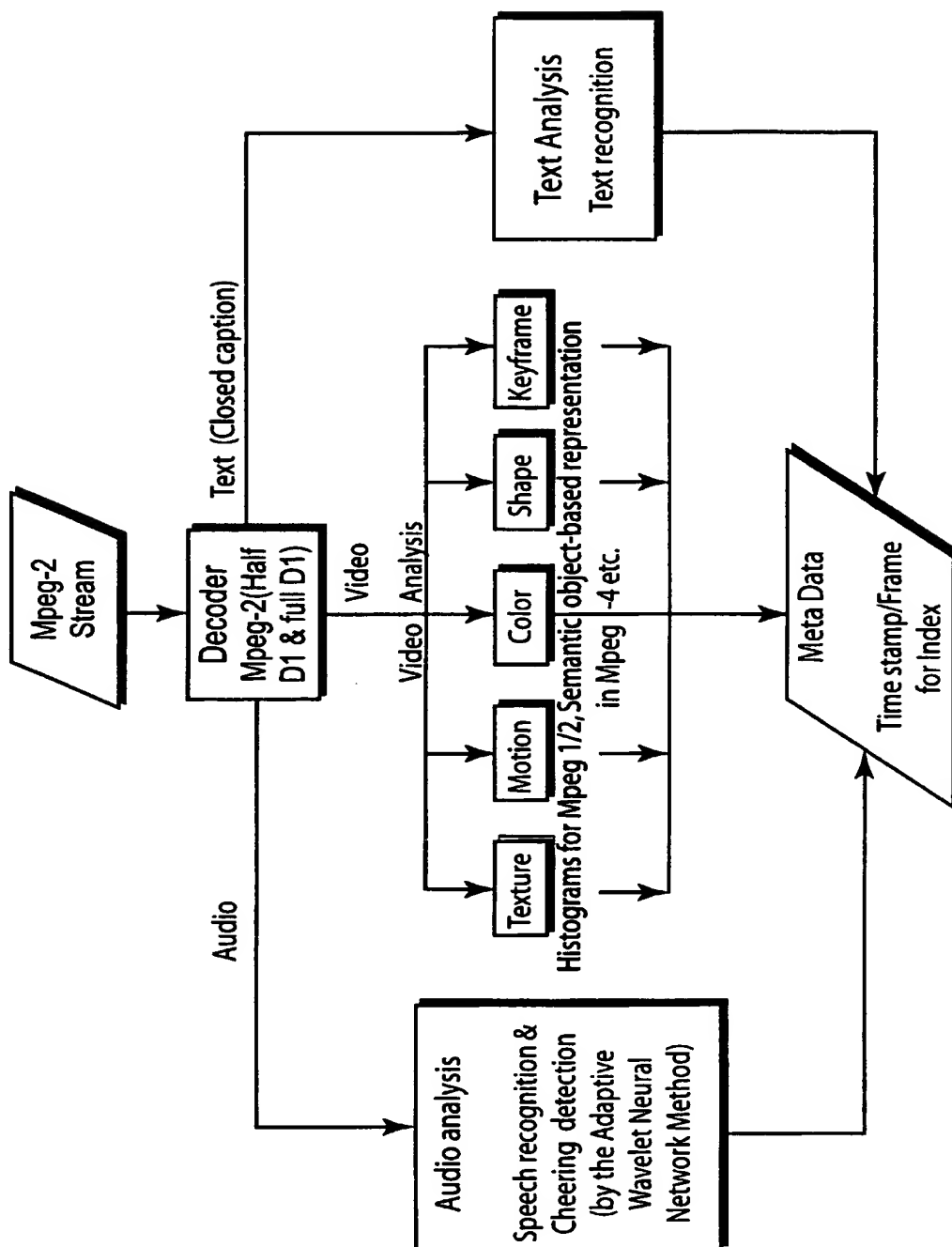


Fig.8f Video Analysis Subsystem Flow Diagram

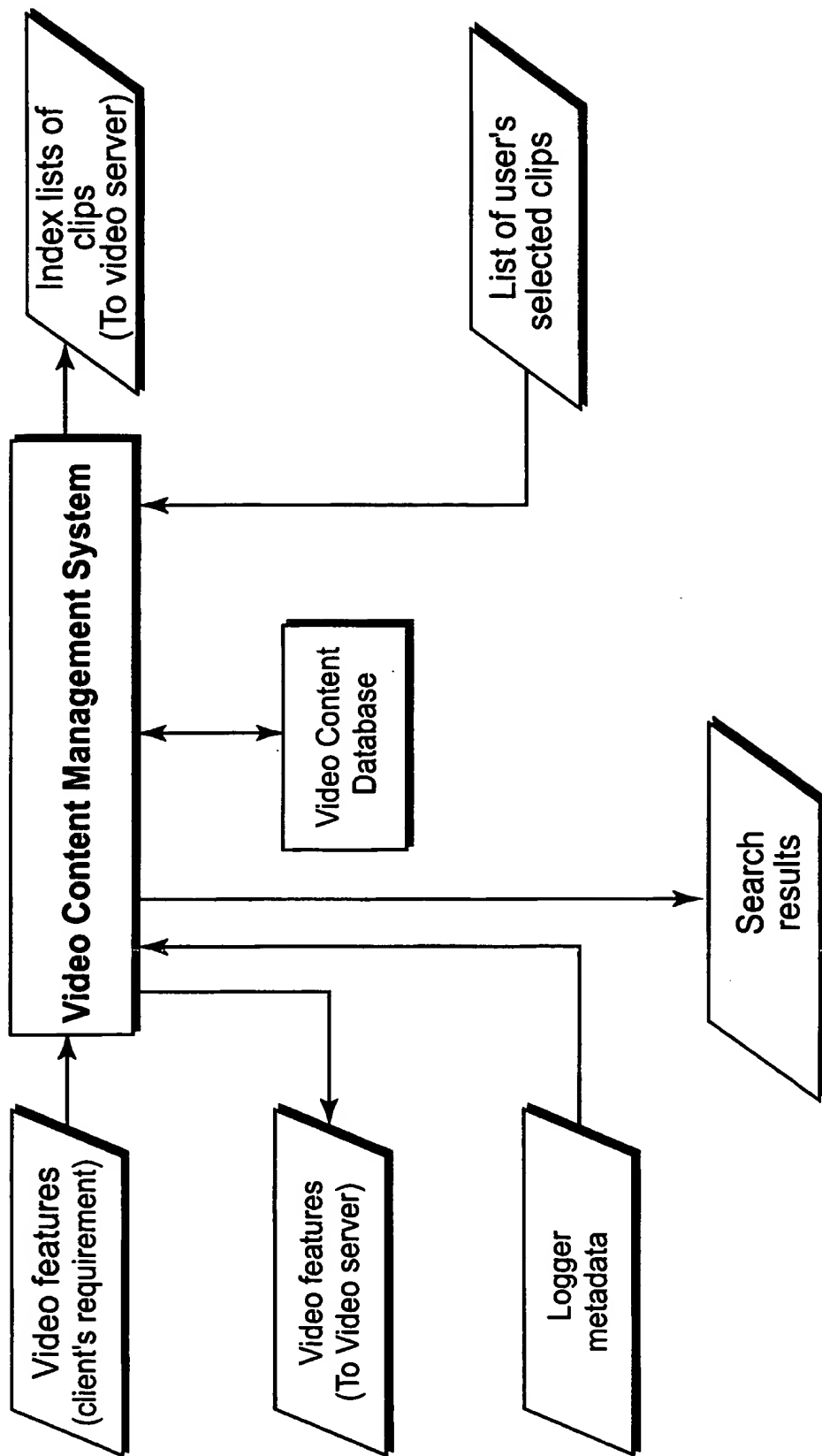


Fig.8g Application Server Flow Diagram

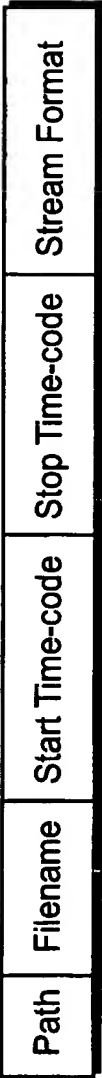


Fig.9 Video Frame Index Format

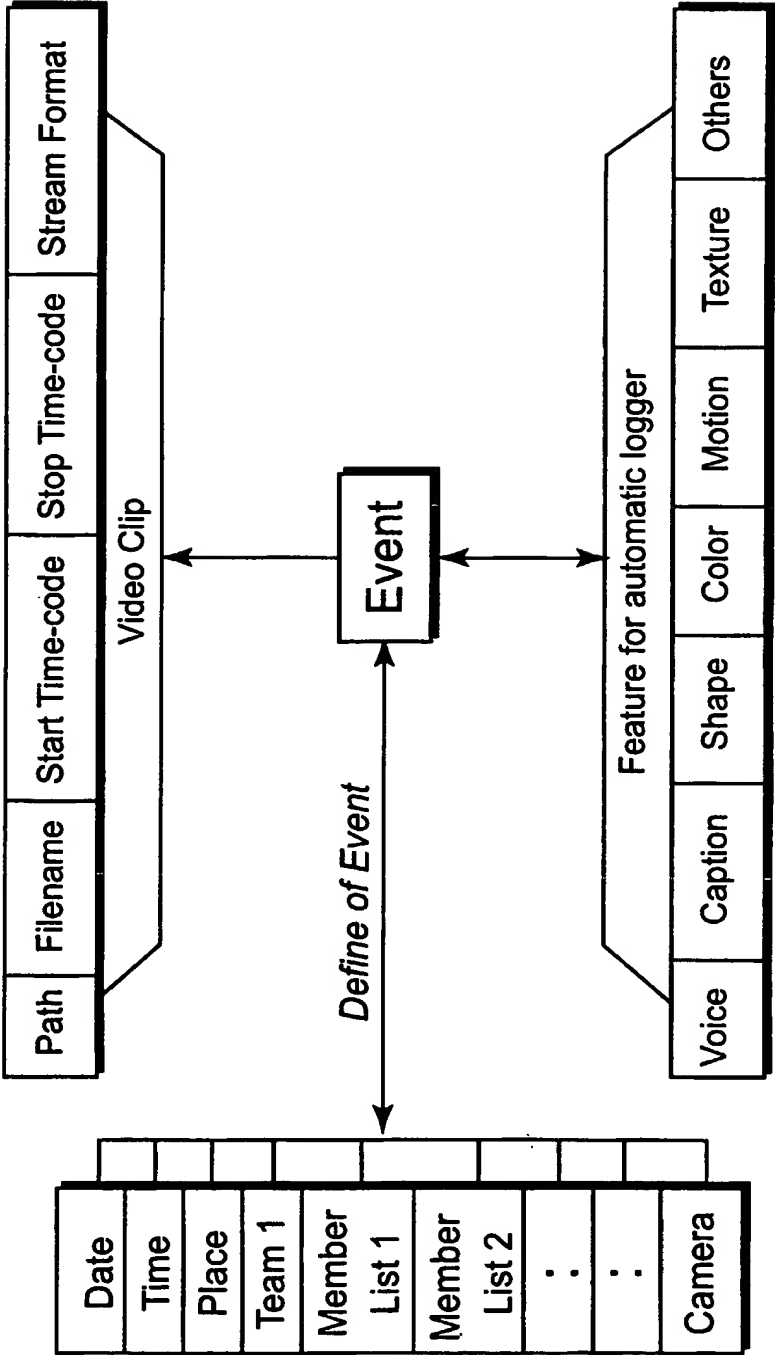


Fig.10 The Relationship between the Video Index, Features and Event Database.

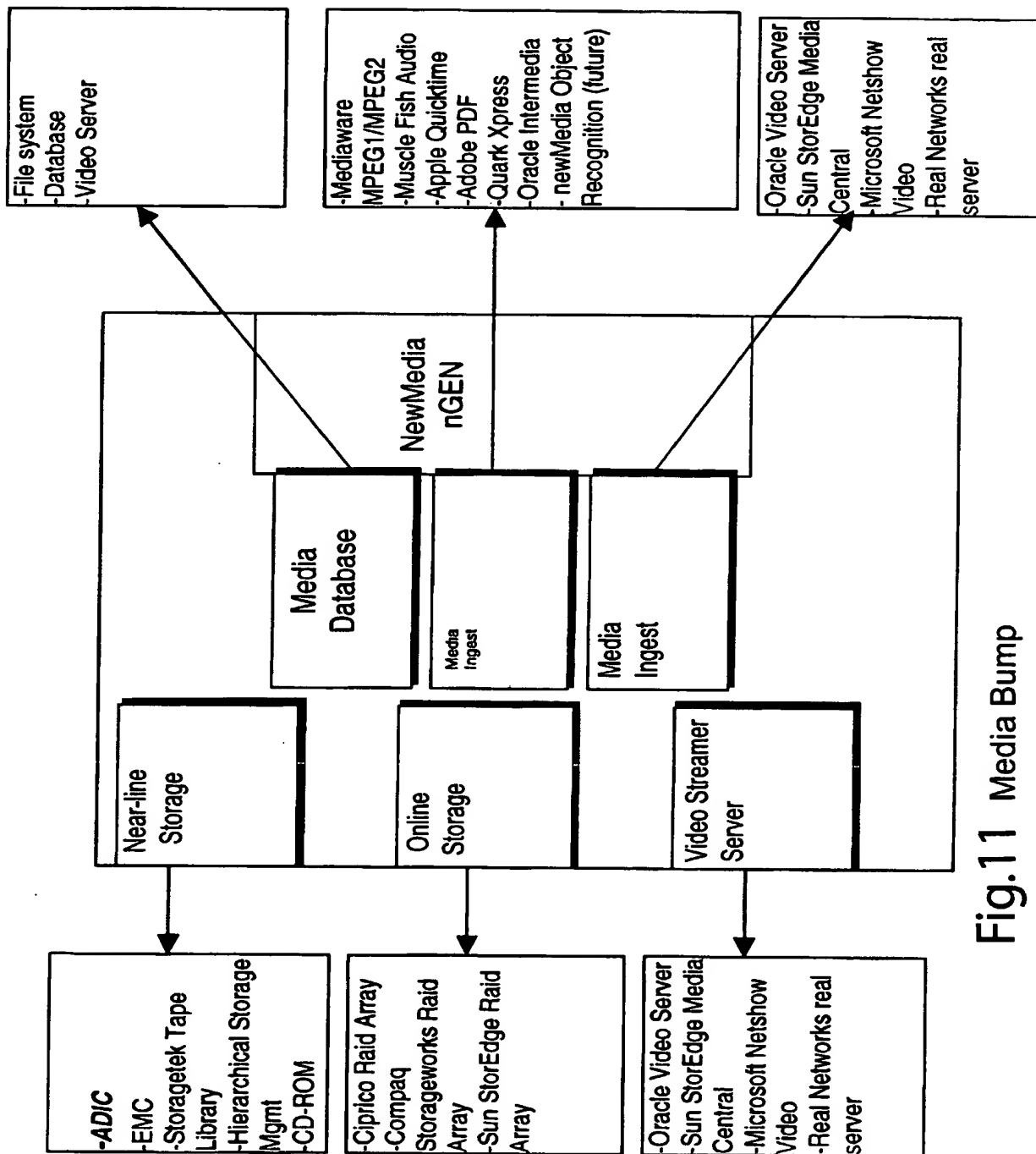


Fig.11 Media Bump

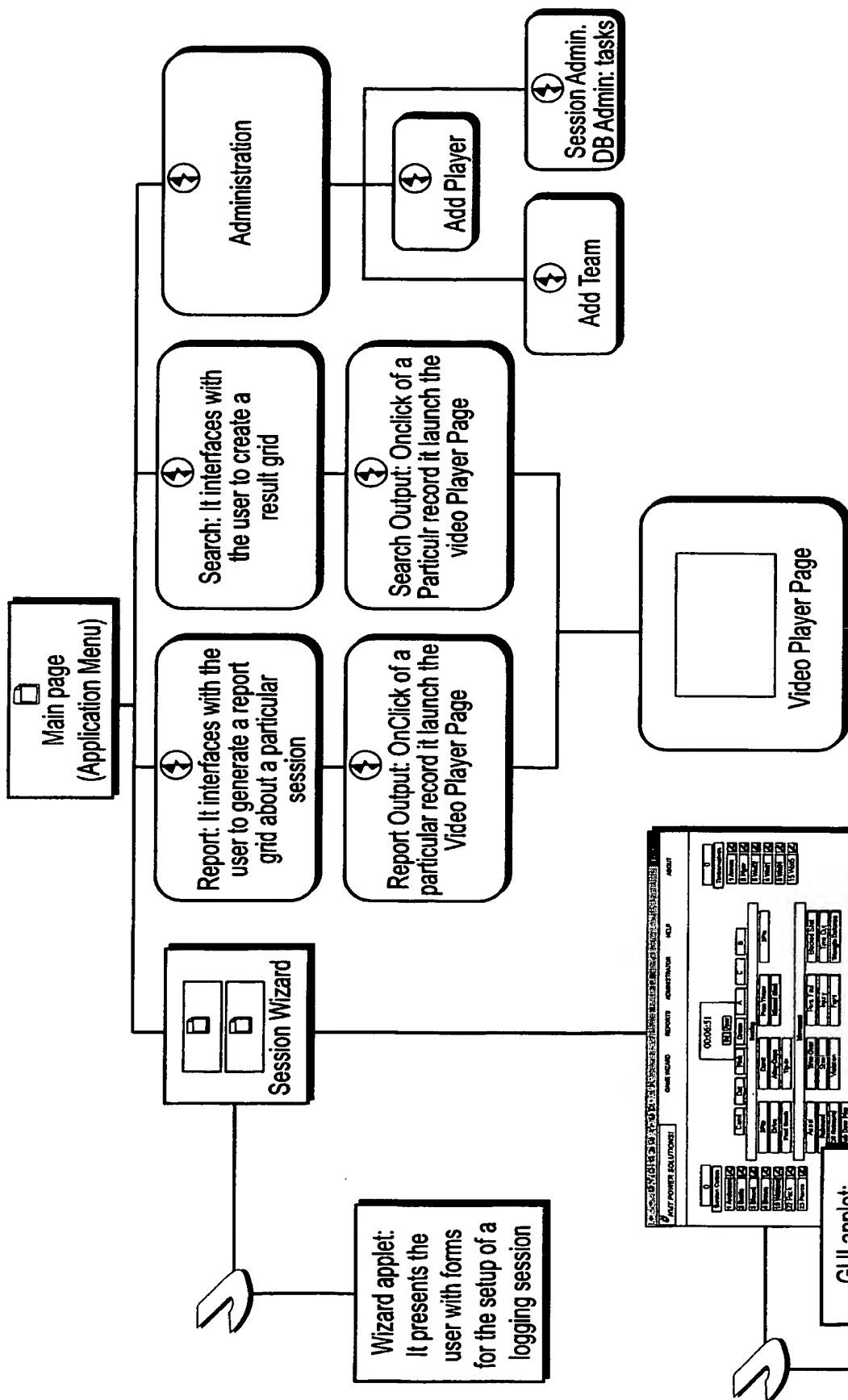


Fig.12 Multimedia Logging and  
Application Web-based User  
Interface

Database Table

GroupName	NumberOfElems	Xpos	Ypos	bckground
NMT	15	300px	250px	Red
ComNet	2	500px	250px	

Fig.13

CustID	Cust. Name	ElmType	Dbclick	Click	GroupNamen	Xpos	Ypos
1	Charles Smith	Button	List	Select	NMT	0	0
2	Alphonso Hamilton	Button	List	Select	NMT	1	0
3	Rafael Cortina	Button	List	Select	NMT	0	1
4	Rovi	Button	List	ExSelect	ComNet	0	0
5	Cliff	Button	List	ExSelect	ComNet	1	0

Fig.14

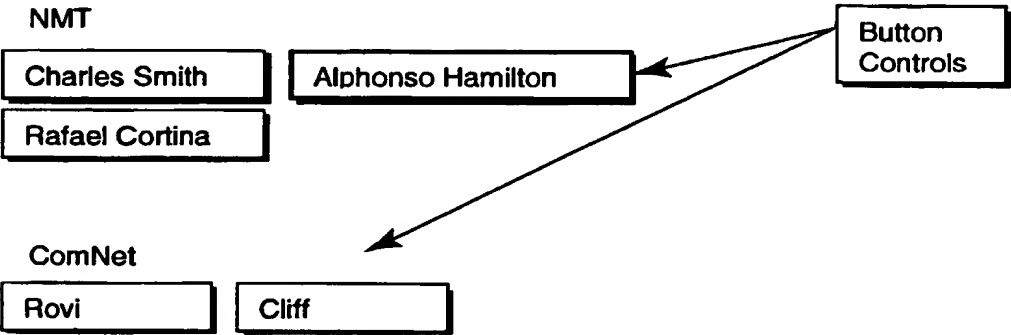


Fig.15

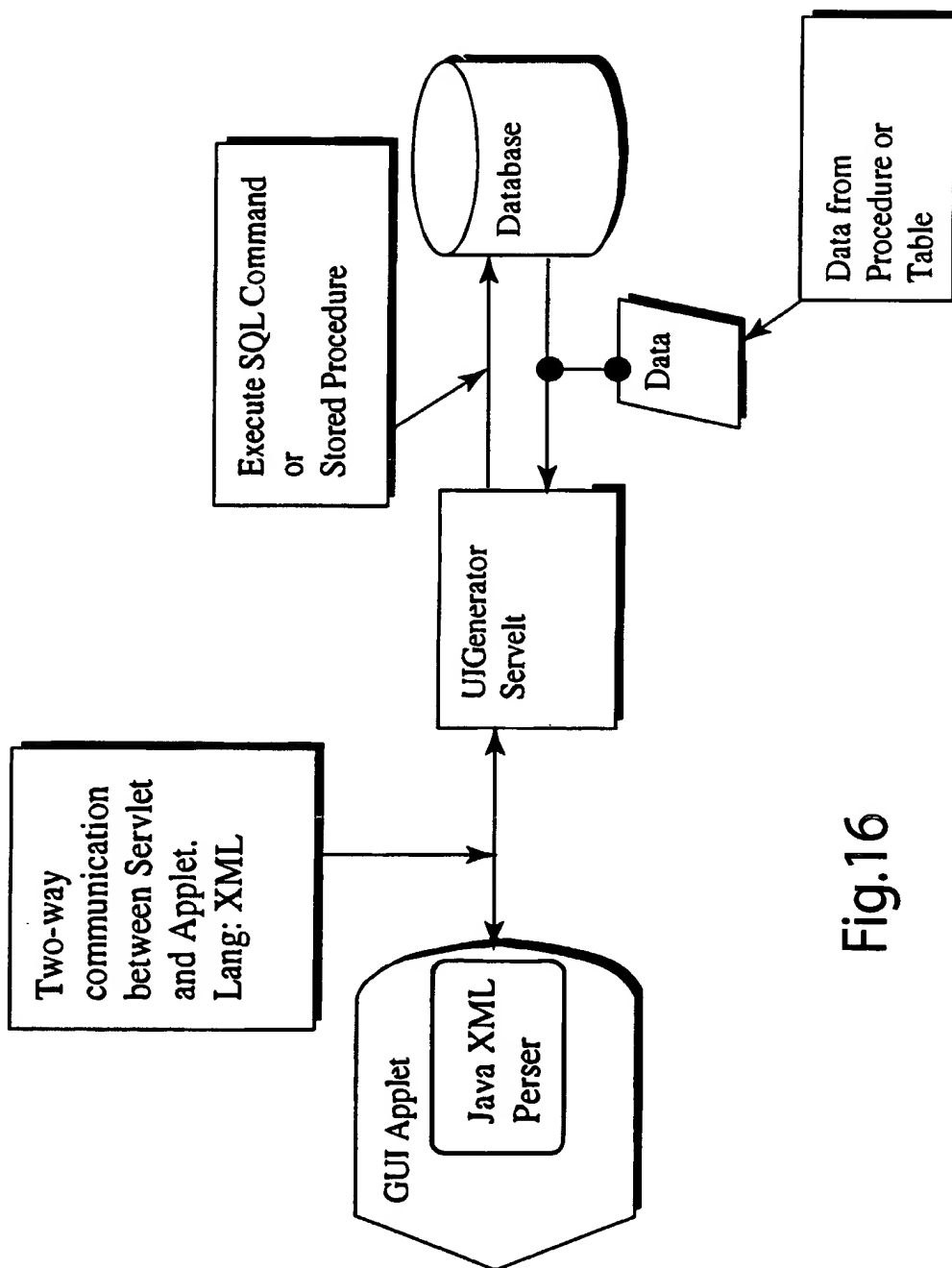


Fig.16

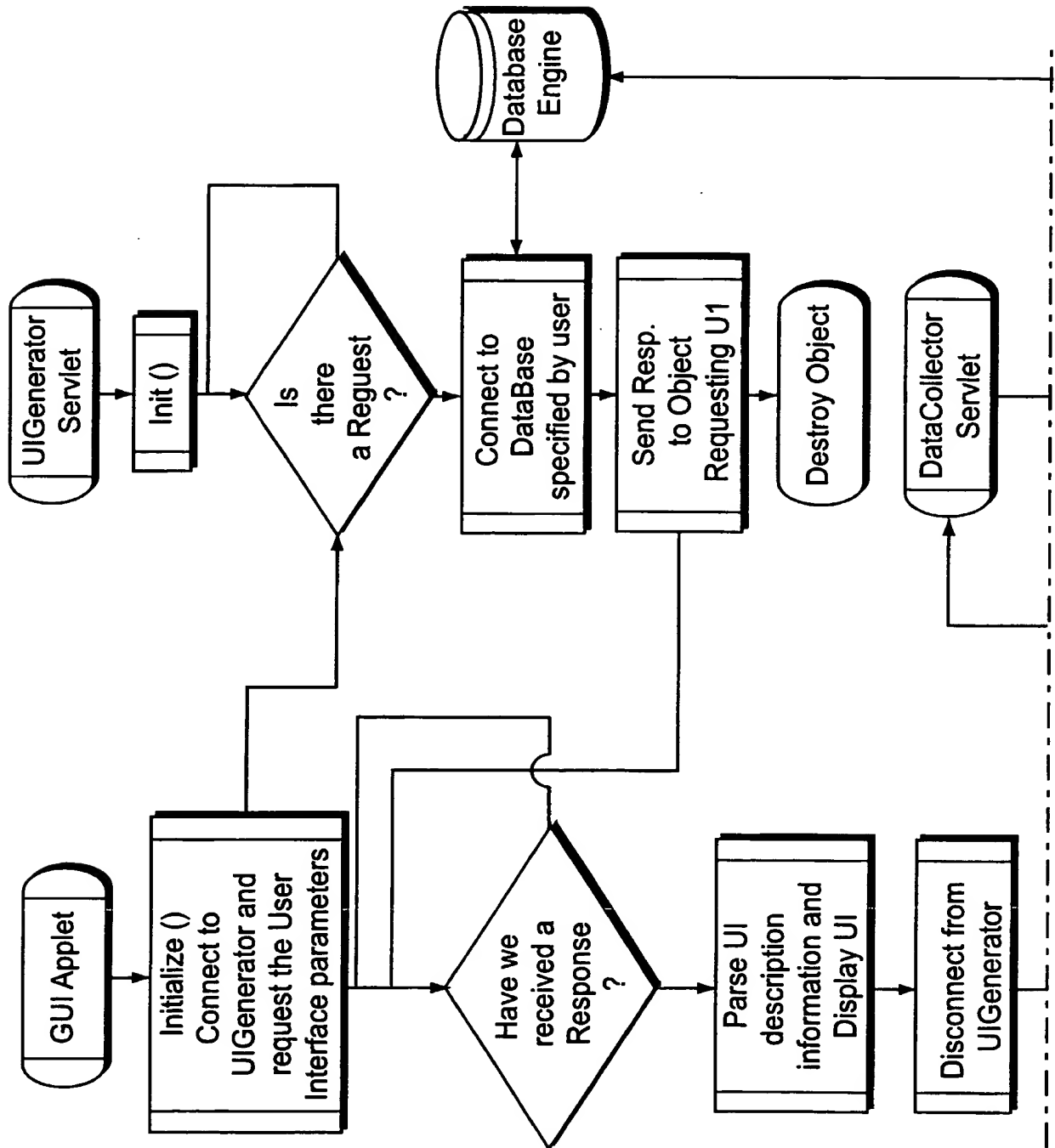


Fig.17a

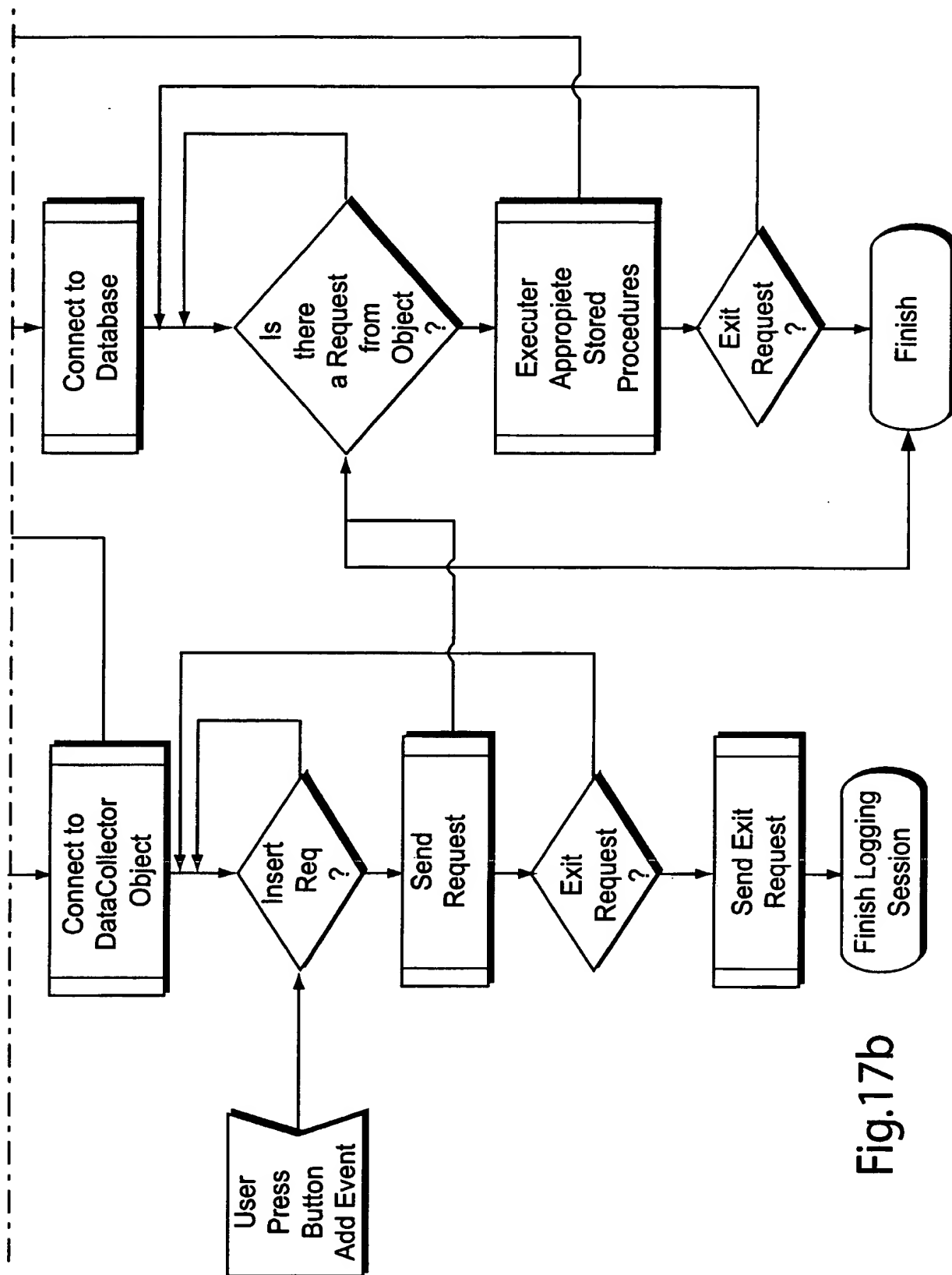


Fig.17b

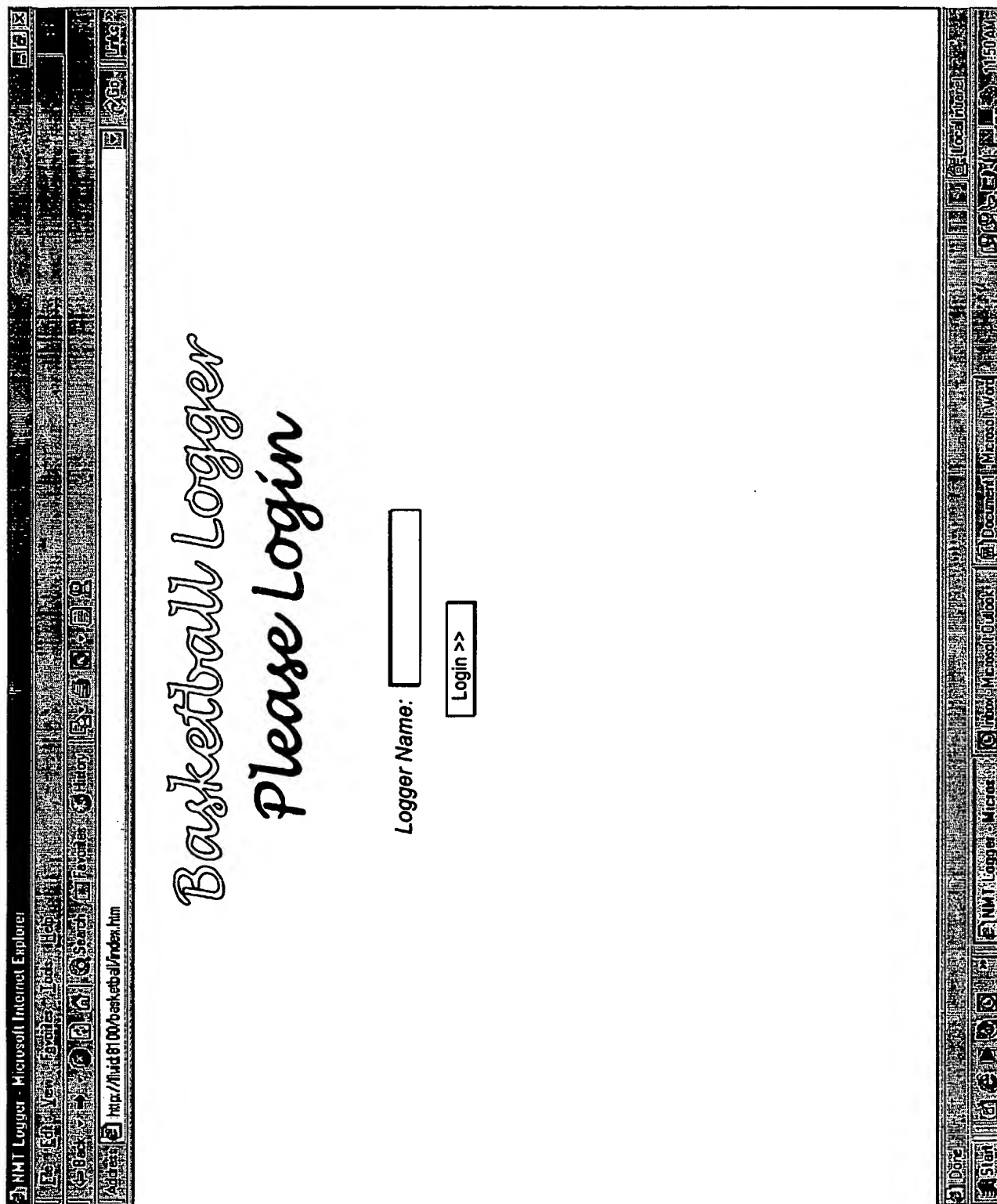


Fig.18

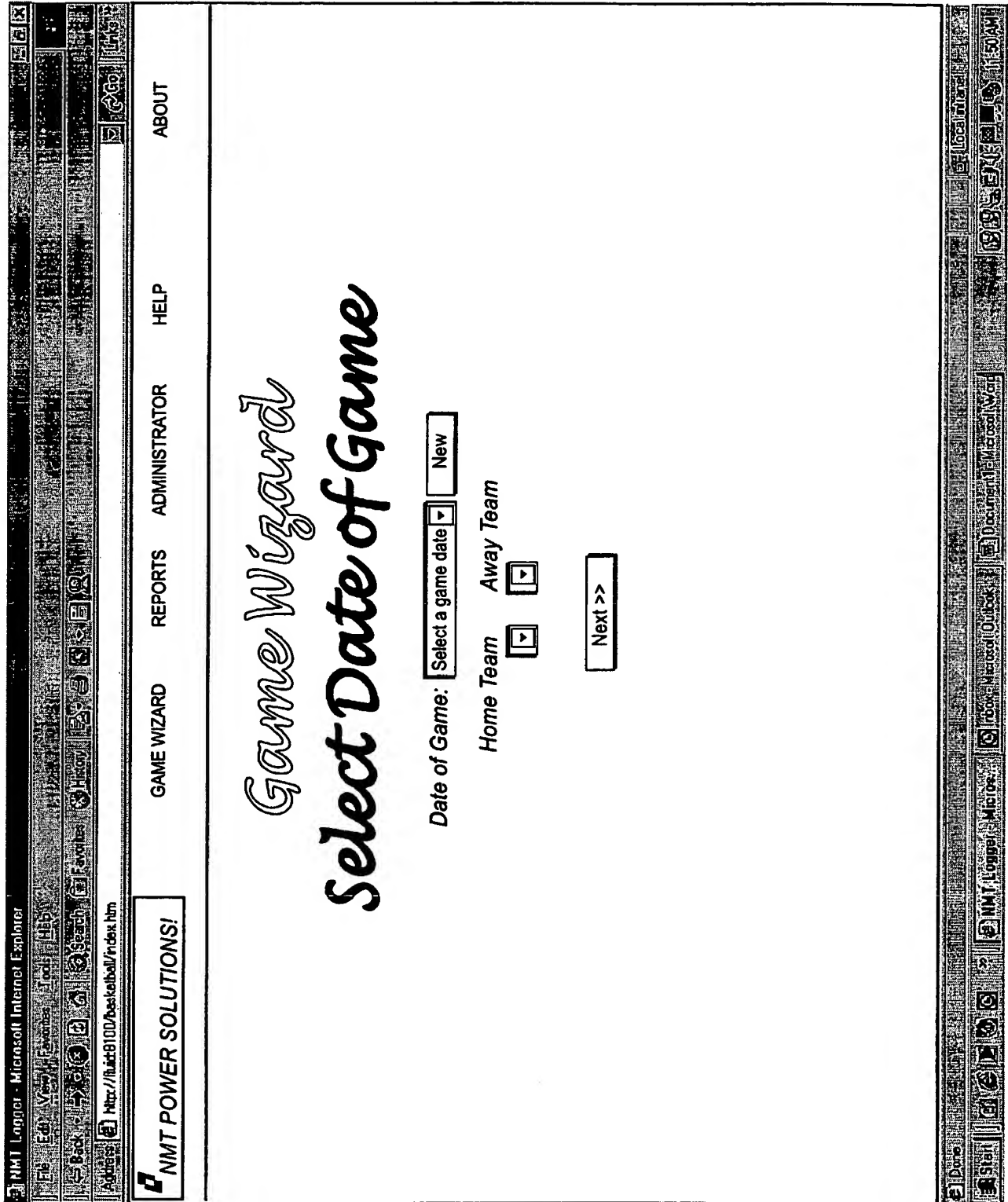


Fig.19

**Game Wizard**

## Select Date of Game

Date of Game:

Home Team  Away Team

Game Administrator - Microsoft Internet Explorer

Game

Date of Game

Game Number

Home Team

Visiting Team

Location

Search Date/No.  <<" >>"

Fig.20

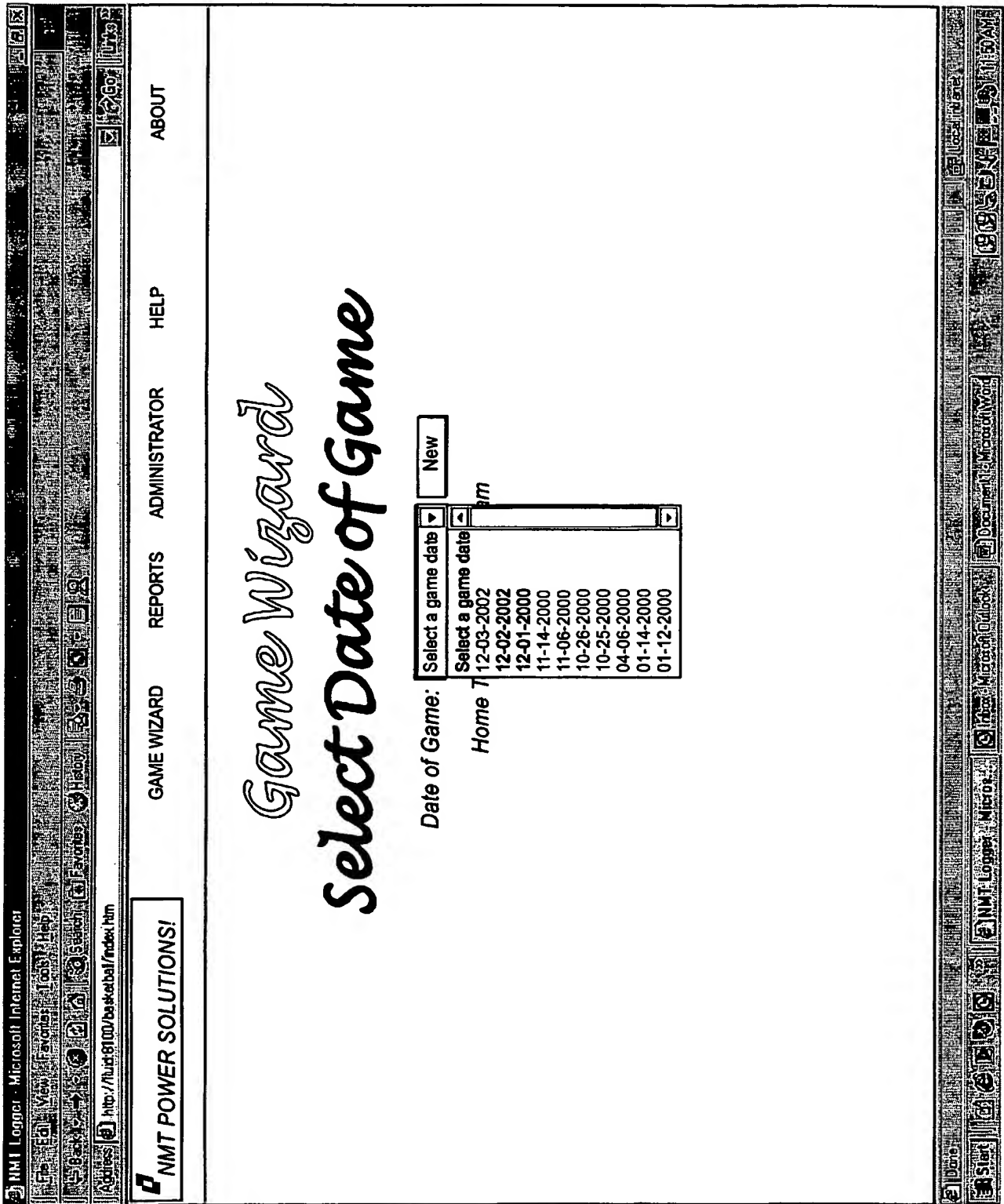


Fig.21

TOP260" 30090860

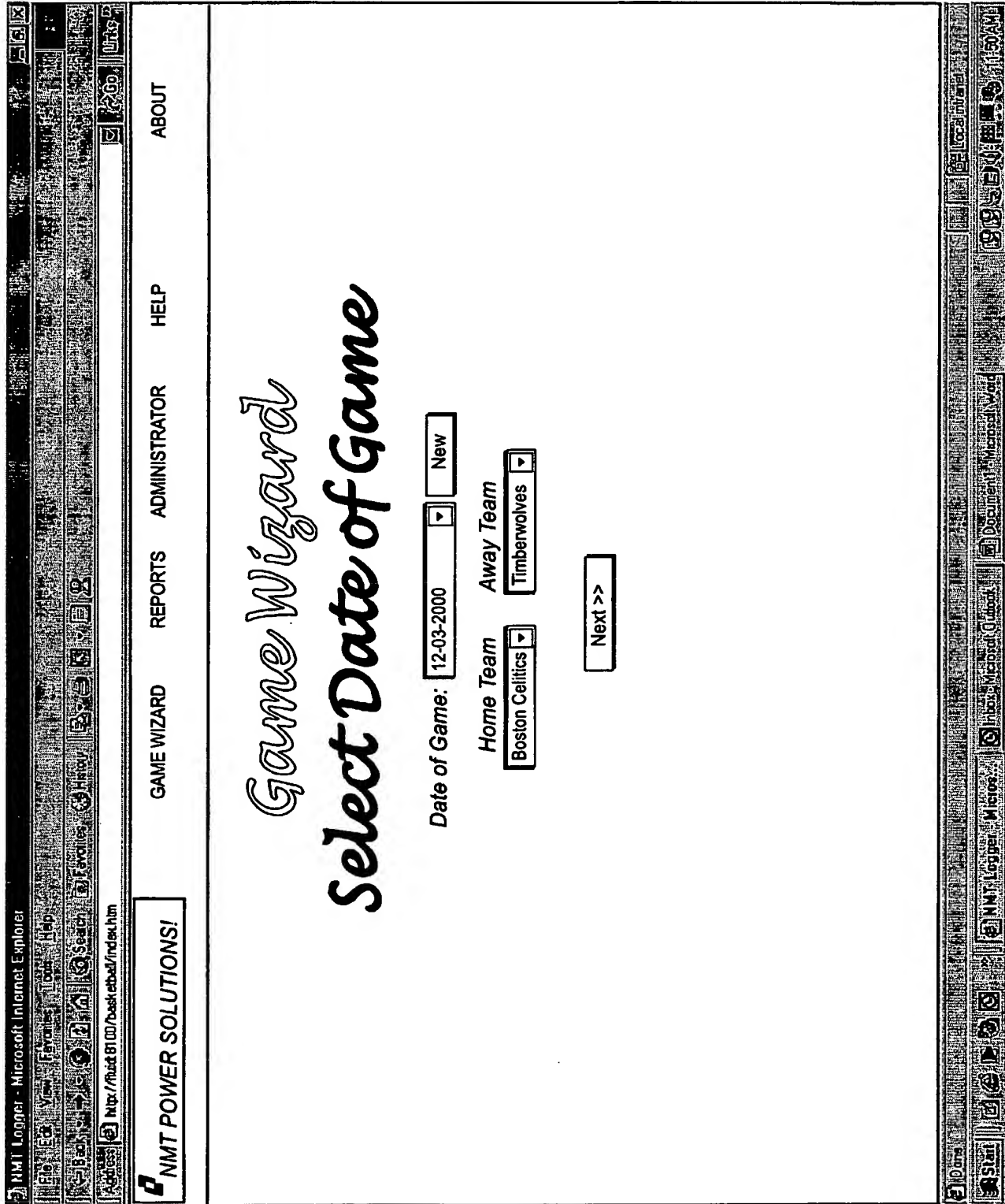
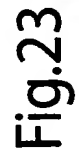
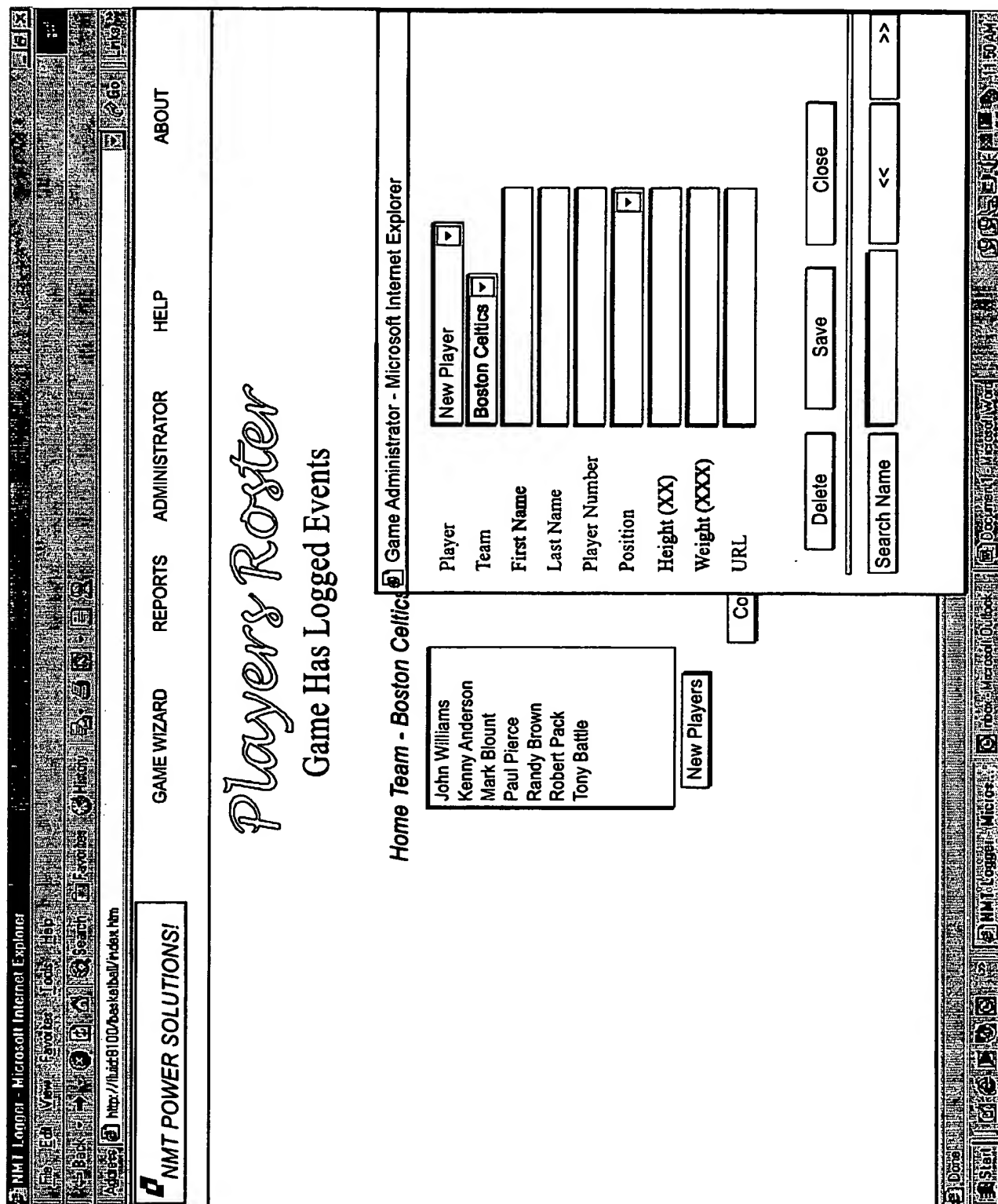


Fig.22





GAME WIZARD

REPORTS

ADMINISTRATOR

HELP

ABOUT

0

Boston Celtics

1 Anderson

2 Battle

3 Blount

4 Brown

19 Williams

22 Pack

23 Pierce

0

Timberwolves

1 Annan

2 Plyer

3 Wolf2

4 Wolf1

5 Wolf4

15 Wolf5

00:05:41

Sel

Pause

Cam1

Cat

Pink

Green

A

C

B

Scoring

2Pts

Drive

Fast Break

Dunk

Alley-Oop

Tip-in

Free Throw

Missed Shot

3Pts

Movement

Assist

Rebound

Off Rebound

Back Door Play

Time Over

Steal

Violation

Pers. Foul

Injury

Fight

Blocked Shot

Time Out

Triangle Defence

Cutaway

Coach

Fan

Bench

Description

Blooper

Highlight

Buzzer Beater

Comments

Get Time

Add Event

Del Event

Quick Report

Game Over

Fig.25

**Fig. 26**

00:06:48

Get Time

Add Event

Del Event

Quick Report

Game Over

Buzzer Beater

Comments

Description

Highlight

Cutaway

Fan

Bench

Assist

Rebound

Off Rebound

Back Door Play

Blocked Shot

Time Out

Triangle Defence

00:08:23

Sel

Pause

Scoring

2Pts

Drive

Fast Break

Dunk

Alley-Oop

Tip-In

Free Throw

Missed Shot

3Pts

Cam1

Cat

Pink

Green

A

C

B

0

Boston Celtics

1 Anderson

2 Battle

3 Blount

4 Brown

19 Williams

22 Pack

23 Pierce

0

Timberwolves

1 Annan

2 Plyer

3 Wolf2

4 Wolf1

5 Wolf4

15 Wolf5

NMT POWER SOLUTIONS!

GAME WIZARD

REPORTS

ADMINISTRATOR

HELP

ABOUT

Fig.27

Search & Report - Microsoft Internet Explorer

Quick Report

Time	Boston Celtics	H Events	H PTS	V PTS	V Events	Timberwolves	Comments	can1	cat	Pmk	Green	A	C	B
00:00:00	Kenny Anderson	Violation	0	0				0	0	0	0	0	0	0
00:00:00	Paul Pierce	Rebound	0	0			Pierce Rebound...	0	0	0	0	0	0	0
00:00:00	Paul Pierce			0			Blooper,	0	0	0	0	0	0	0
00:00:00	Paul Pierce			0			Get the time code	0	0	0	0	0	0	0
00:02:00				0			BC back door play	0	0	0	0	0	0	0
00:02:30			0	0	Bench		Bench, The Bench, The Bench!!!! @#%\$%^&*()_+	0	0	0	4	0	0	0
00:02:41			0	0			Fan	0	0	0	0	0	0	0
00:03:18	John Williams	Bench	0	0			Bench	0	0	0	0	0	0	0
00:03:31			0	0			Coach	0	0	0	0	0	0	0
00:03:52	Robert Pack	Coach	0	0			Coach	0	0	0	0	0	0	0
00:04:05			0	0			Coach	0	0	0	0	0	0	0
00:06:48	John Williams	2 Pts	2	0			Highlight,	0	2	3	4	0	0	0

CLOSE

Search & Report - Microsoft Internet Explorer

Search & Report

Document Microsoft

Internet Explorer

Menu

File Edit View Favorites Tools Help

CLOSE

Fig.28

00

11

26

OK

Cancel

Warning: Applet Window

Cam1

Cat

Pink

Green

A

C

B

00:11:26

Set

Start

2

Boston Celtics

1 Anderson

2 Battle

3 Blount

4 Brown

19 Williams

22 Pack

23 Pierce

0

Timberwolves

1 Annan

2 Plyer

3 Wolf2

4 Wolf1

5 Wolf4

15 Wolf5

2Pts

Drive

Fast Break

Dunk

Alley-Oop

Tip-In

Free Throw

Missed Shot

3Pts

Assist

Rebound

Off Rebound

Back Door Play

Time Over

Steal

Violation

Pers. Foul

Injury

Fight

Blocked Shot

Time Out

Triangle Defence

Cutaway

Coach

Fan

Bench

Blooper

Highlight

Buzzer Beater

Comments

Get Time

Add Event

Del Event

Quick Report

Game Over

NMT POWER SOLUTIONS

GAME WIZARD

REPORTS

ADMINISTRATOR

HELP

ABOUT

Fig.29

**Fig.30**

**NMT POWER SOLUTIONS!** GAME WIZARD REPORTS ADMINISTRATOR HELP ABOUT

**Reports**

Search by  Player  Search content  Ascending  Search

**Players List**

PLAYER	TEAM
<u>Allan Houston</u>	<u>New York Knicks</u>
<u>Alonzo Mourning</u>	<u>Miami Heat</u>
<u>Blue Edwards</u>	<u>Miami Heat</u>
<u>Calbert Cheaney</u>	<u>Denver Nuggets</u>
<u>Charlie Ward</u>	<u>New York Knicks</u>
<u>Chris Carr</u>	<u>Chicago Bulls</u>
<u>Chris Childs</u>	<u>New York Knicks</u>
<u>Chris Dudley</u>	<u>New York Knicks</u>
<u>Clarence Weatherspoon</u>	<u>Miami Heat</u>
<u>Cory Alexander</u>	<u>Denver Nuggets</u>
<u>Dan Materle</u>	<u>Miami Heat</u>
<u>Dan McClintock</u>	<u>Denver Nuggets</u>
<u>David Wingate</u>	<u>New York Knicks</u>
<u>Duane Causwell</u>	<u>Miami Heat</u>
<u>Eric Williams</u>	<u>Miami Heat</u>
<u>Evan Eschmeyer</u>	<u>New Jersey Nets</u>
<u>George McCloud</u>	<u>Denver Nuggets</u>
<u>Gheorghe Muresan</u>	<u>New Jersey Nets</u>
<u>Jamal Mashburn</u>	<u>Miami Heat</u>

Fig.31

HOME

NEW

SEARCH

HELP

ABOUT

NMT POWER SOLUTIONS!

GAME WIZARD

REPORTS

ADMINISTRATOR

HELP

ABOUT

Search by

Player

Search content

Ascending

Search

Games List

Player : Allan Houston

GAME	Game Date	TEAM	Time	EVENT	COMMENTS
1222002	12-02-2002	New York Knicks	00:04:10		missed shot....triangle offense.....
1222002	12-02-2002	New York Knicks	00:05:29	Turn Over	Turn Over1213233.....
11256650	11-06-2000	New York Knicks	00:23:47	3 Pts	
11256650	11-06-2000	New York Knicks	00:35:18	Drive	
23	10-26-2000	New York Knicks	13:03:41	2 Pts	
23	10-26-2000	New York Knicks	13:04:40	Time Out	
23	10-26-2000	New York Knicks	13:08:39	Free Throw	
23	10-26-2000	New York Knicks	13:08:50	Free Throw	
01142000	01-14-2000	New York Knicks	00:00:10	Turn Over	

Fig.32

SPORTS - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://lud18100/basketbal/pdforma.htm

Back Forward Stop Search Open Favorites

NMT POWER SOLUTIONS!

GAME WIZARD

REPORTS

ADMINISTRATOR

HELP

ABOUT

Search by

Player

Search content

Ascending

Search

Reports

Games List

Team : New York Knicks

Game Date	GAME
12-02-2002	1222002
11-14-2000	13
11-06-2000	11062000
11-06-2000	11256650
10-26-2000	23
10-25-2000	21
10-25-2000	22
04-06-2000	254550056
01-14-2000	01142000

Done

Start

Stop

Back

Forward

Home

Search

Open

Microsoft

Internet

Options

Document

Help

Fig.33

[illegible]

[illegible]

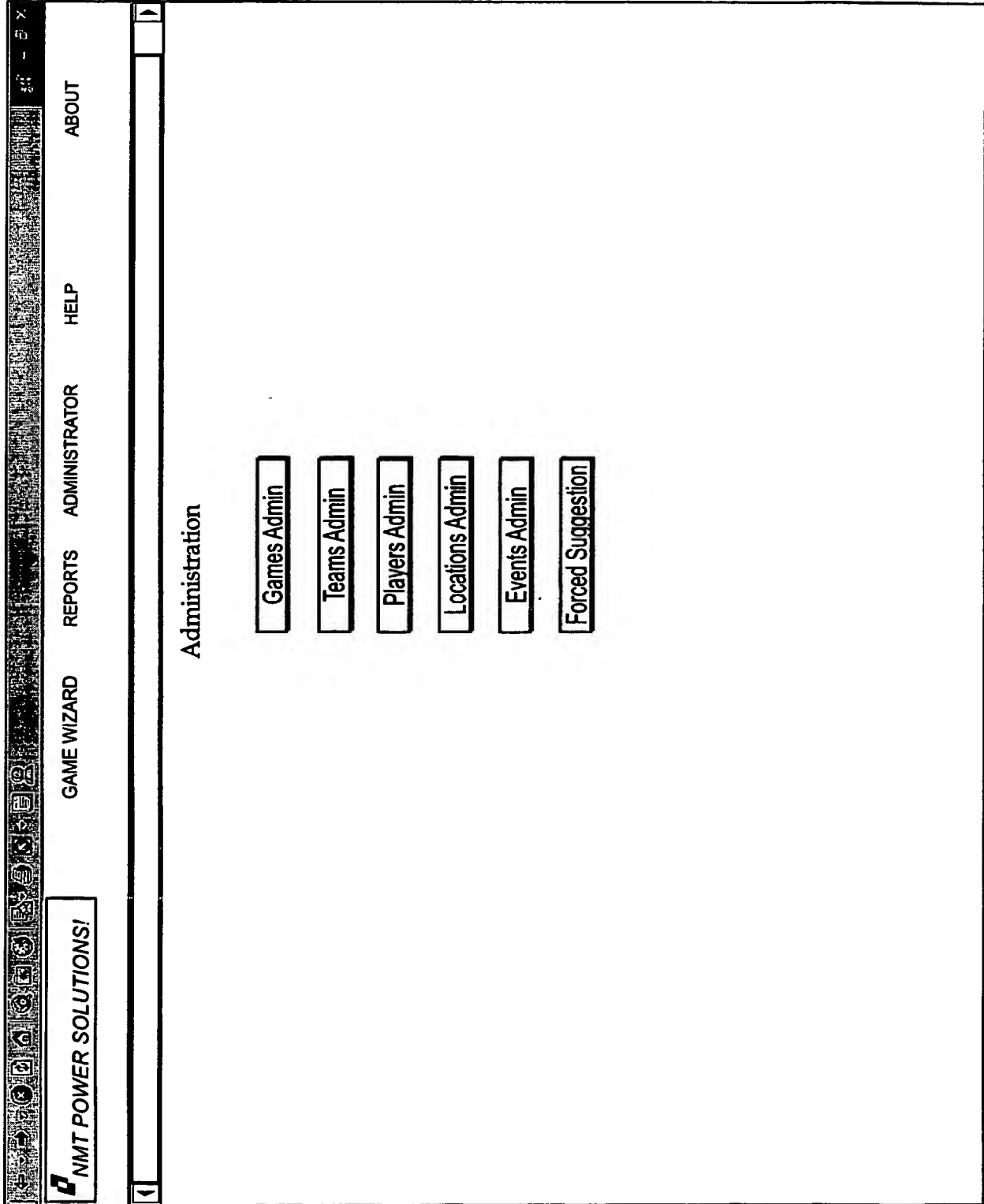


Fig.36

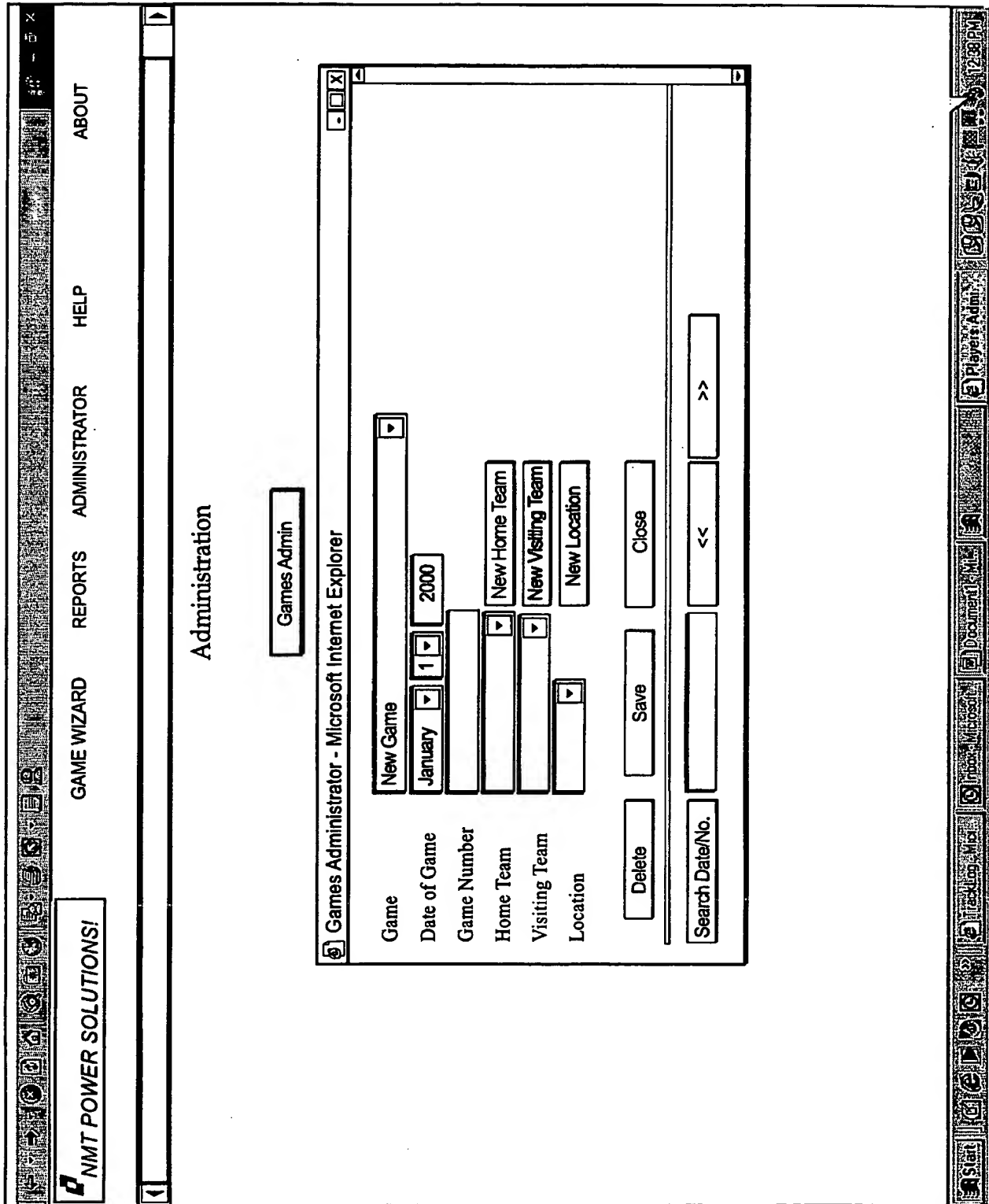


Fig.37

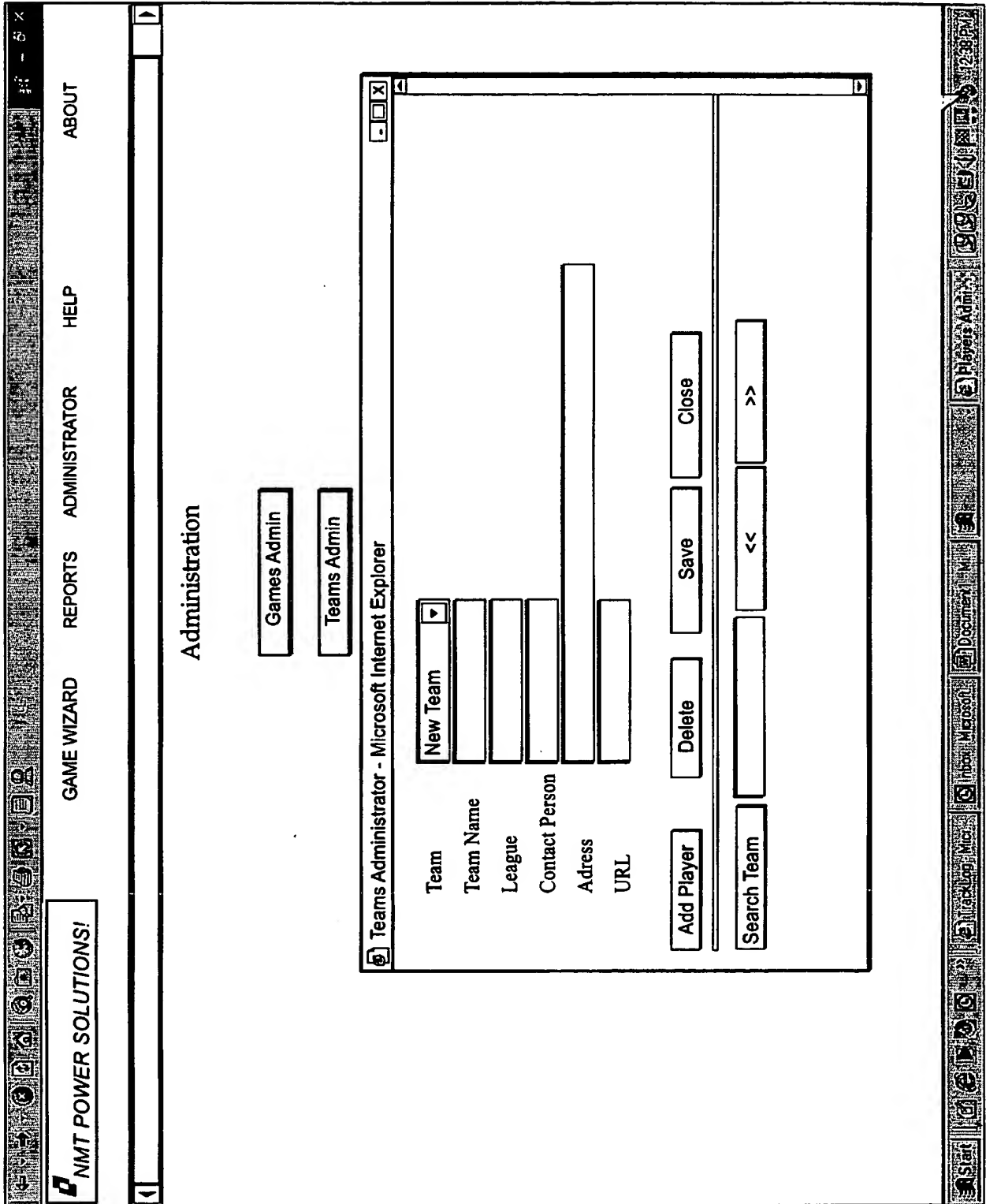


Fig.38

FOI260 80090860

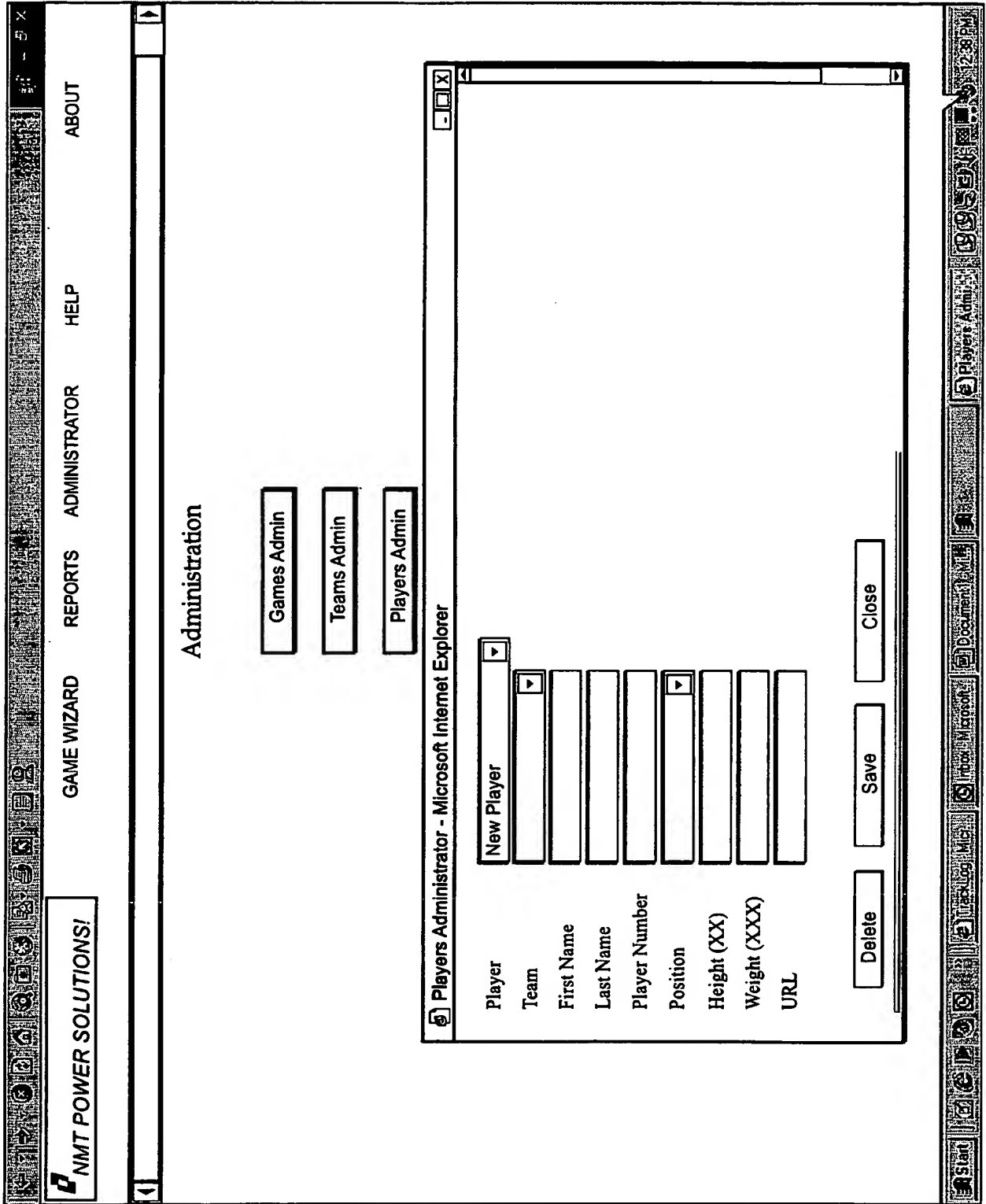


Fig.39

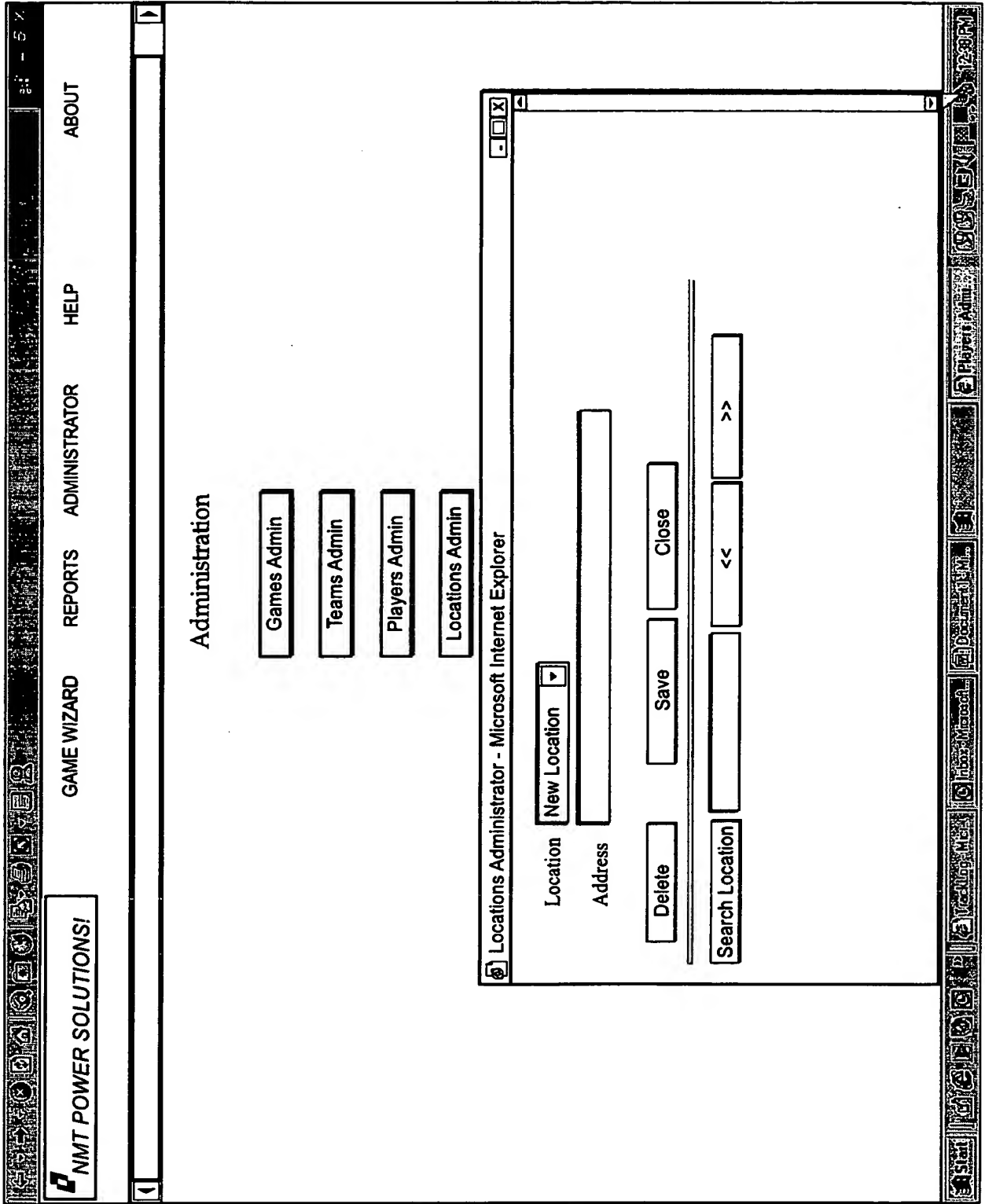


Fig.40

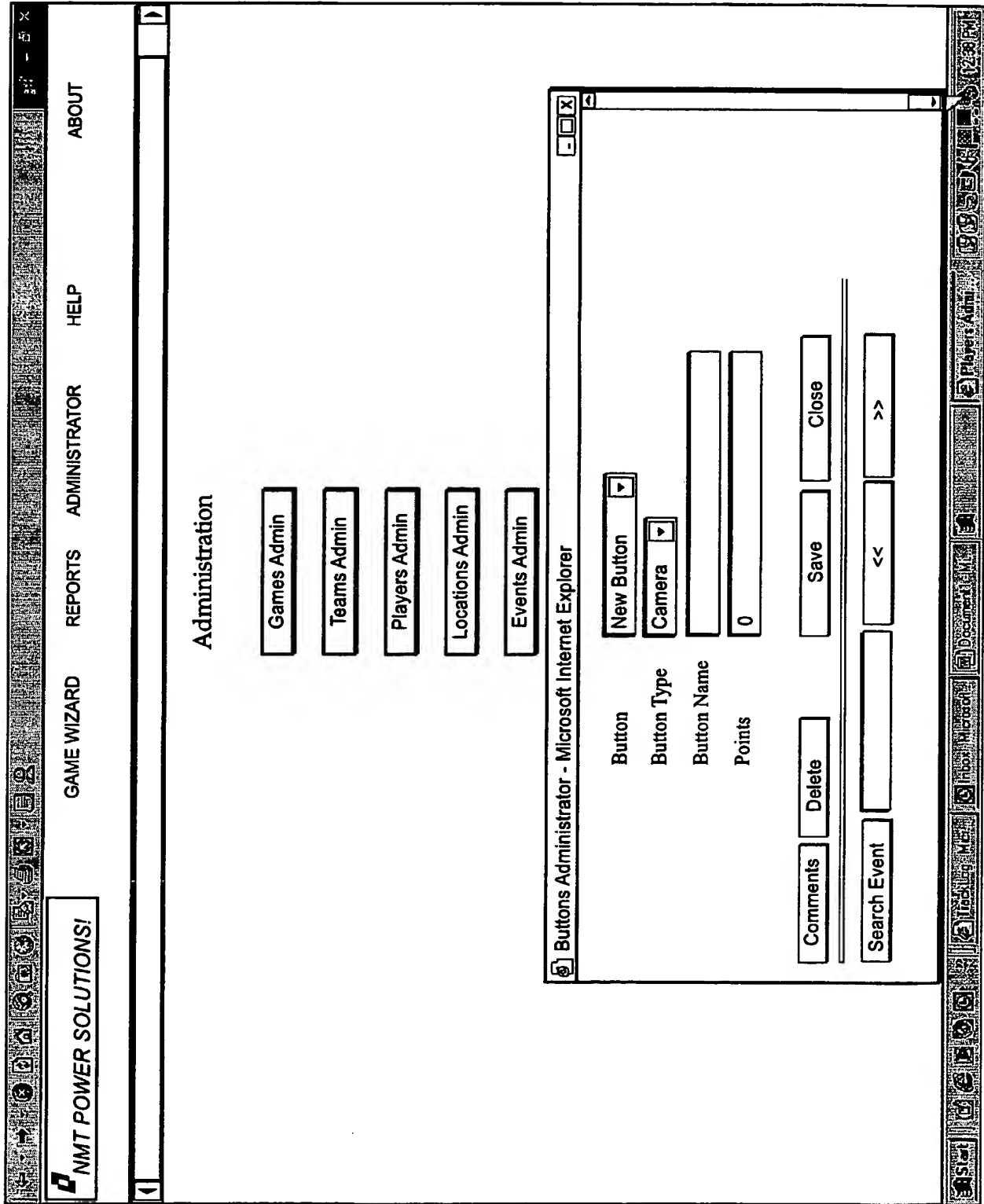


Fig.41

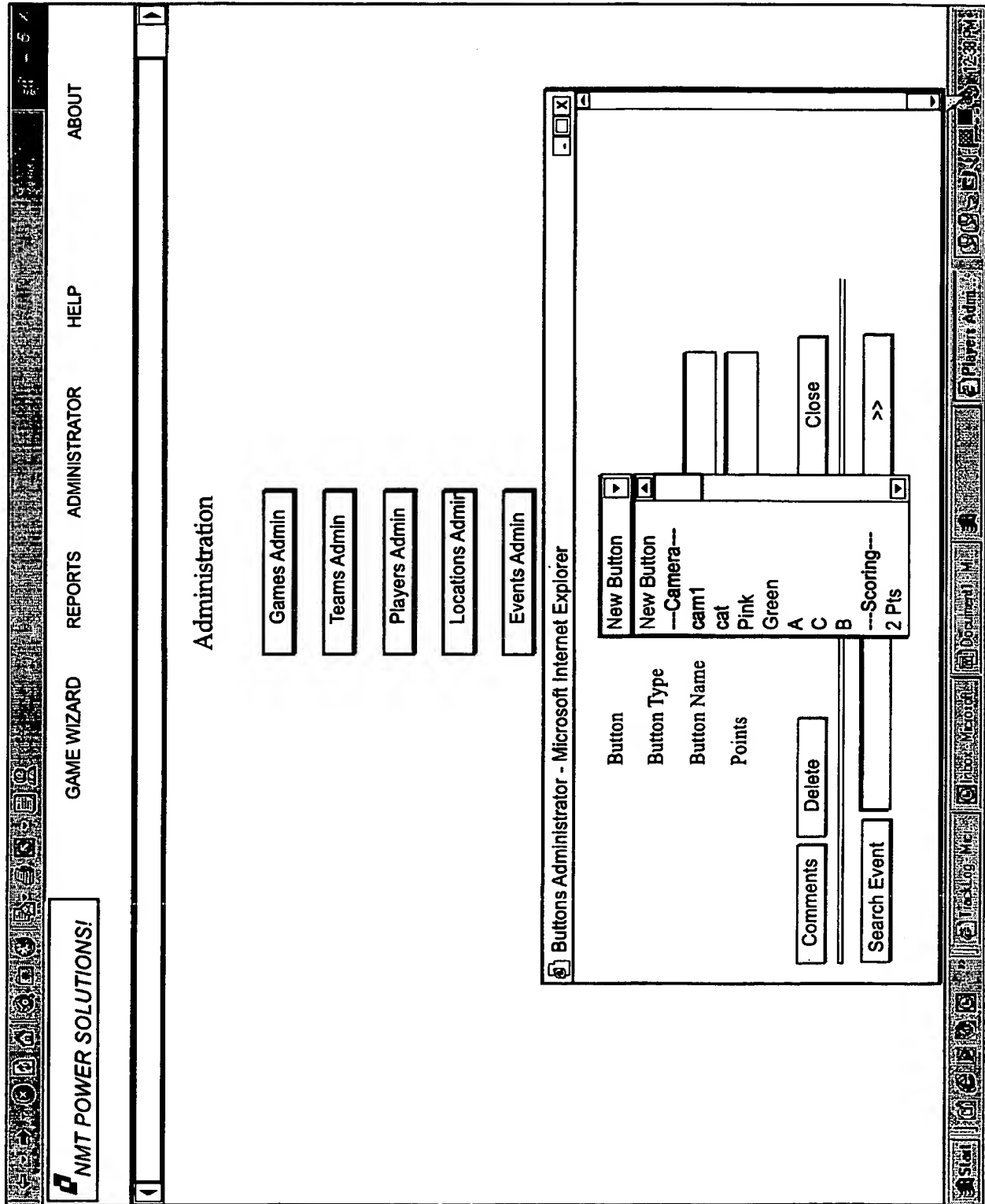
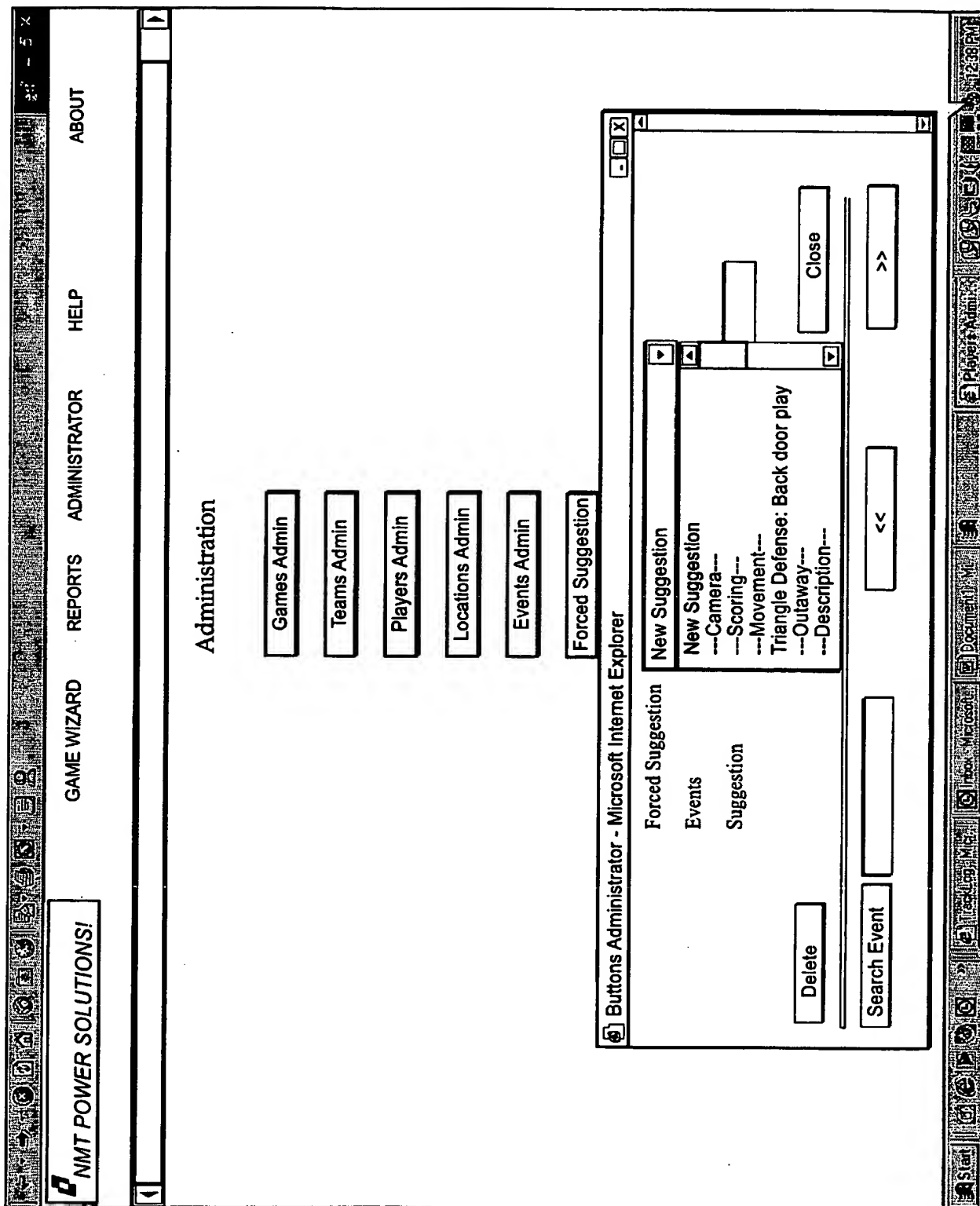


Fig.42



**Fig. 43**

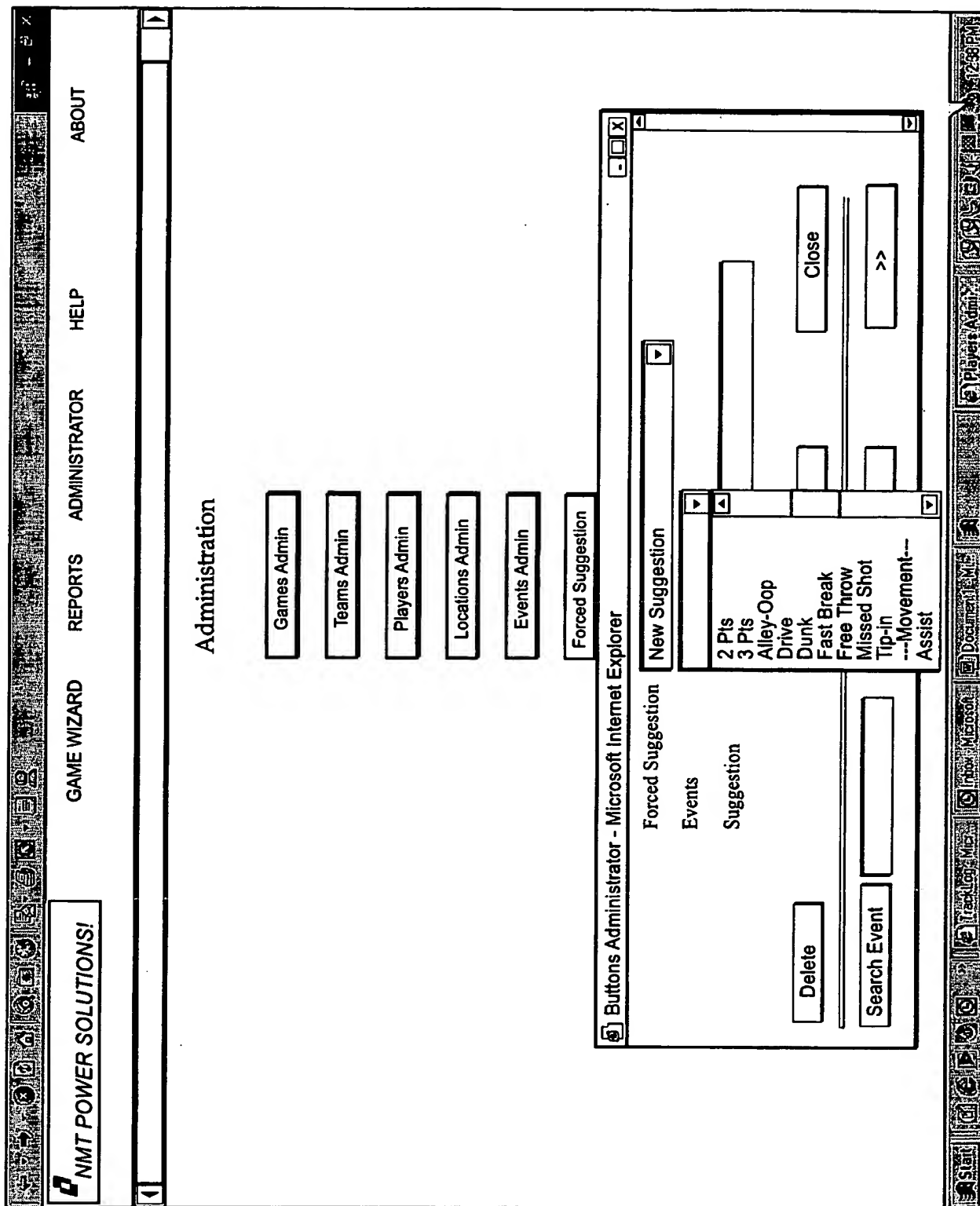


Fig.44

NMT POWER SOLUTIONS!

GAME WIZARD

REPORTS

ADMINISTRATOR

HELP

ABOUT

NEW JERSEY DEVILS vs. DALLAS STARS

Home Team: NEW JERSEY DEVILS

Visiting Team: DALLAS STARS

DEVILS TAKE THE ICE	FIGHT DEVELOPS	HARD CHECK & PUNCH
SHOT ON GOAL	HARD CHECK	FACE OFF & BREAKAWAY
SHOT ON GOAL 2	SHOT ON GOAL 3	SHOT ON GOAL 4
SHOT ON GOAL 5	SHOT ON GOAL 6	SHOT ON GOAL 7
SHOT ON GOAL 8	SAVE	SAVE 2
HARD CHECK 2	FAN - BRODEUR'S WIFE	FAN
FAN - 'LET'S GO DEVILS'	FAN - BRODEUR'S WIFE SCARED	GOALIE: BRODEUR STUNNED
BREAKAWAY		

BENCH	FACE OFF	FACE OFF 2
SHOT ON GOAL: OFFEN/DEF.	SHOT ON GOAL 2	GOALIE VIEW
SAVE	SHOT ON GOAL 3	SHOT ON GOAL 4
FACE OFF NIEUWENDYK WINS	SCORED GOAL & CELEBRATION	SAVE/REPLAY

SUBSTITUTE SHEET (RULE 26)

Fig.45

T00260" 80090860

WO 01/41000

50/50

09 / 806008

PCT/US00/32491

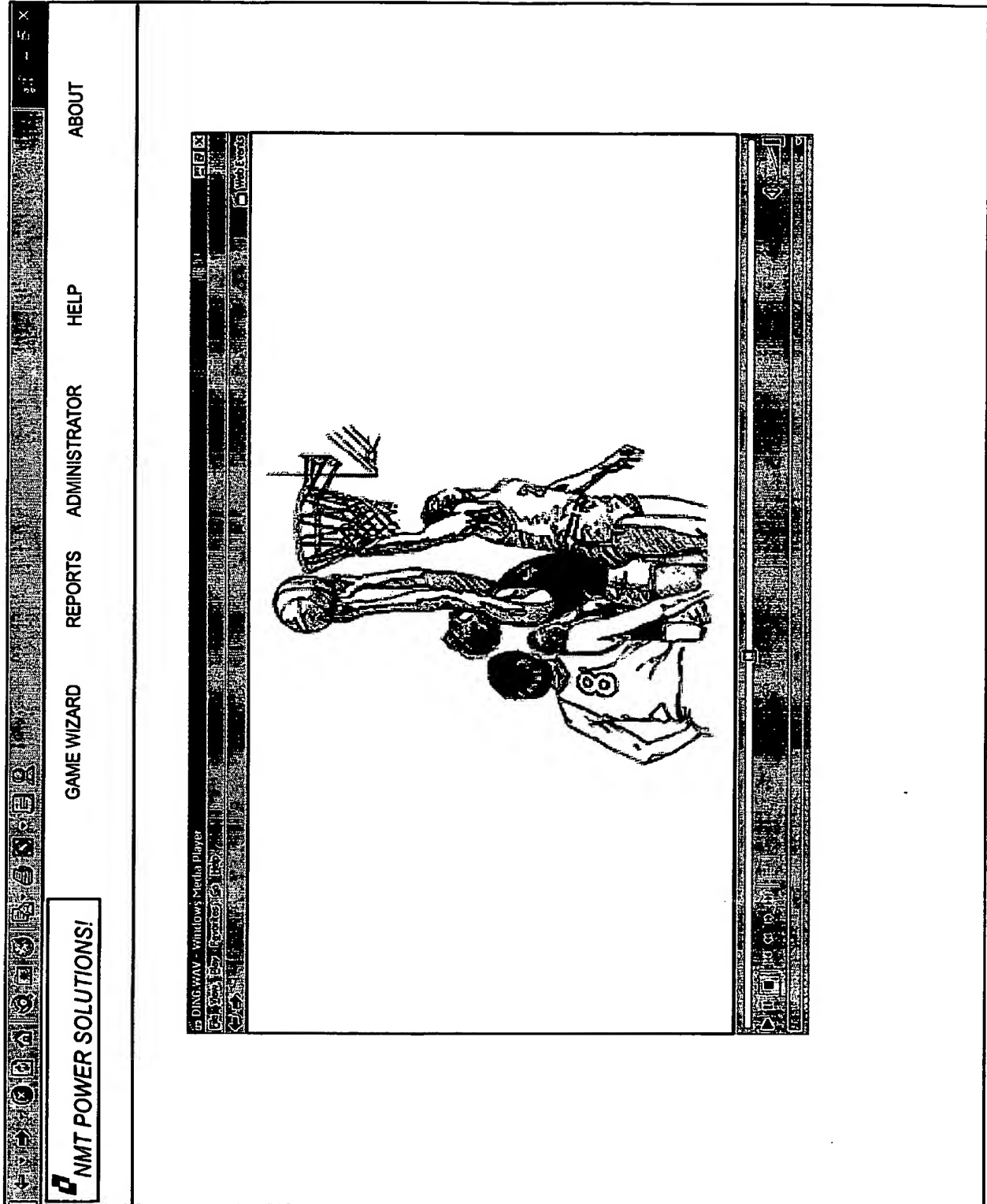


Fig.46